		Time Local/	Path Length	Path Width		ber of sons	Estim Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

ALABAMA, Central

NONE REPORTED.

ALABAMA, North

NONE REPORTED.

ALABAMA, Southeast

ALZ069 Houston

> 2050EST Flood

2230EST

Three to five inches of rain flooded several roads in Cowarts, Hodgesville and Dothan. Reported by the Houston County EMA.

ALZ067 Henry

> 05 2055EST Flood

2200EST

Up to three inches of rain flooded some county roads in the southern portion of the county. Reported by the Henry County EMA.

ALABAMA, Southwest

NONE REPORTED.

ALASKA, Northern AKZ220-222>224

Yukon Flats Nearby Uplands - Middle Tanana Valley - Deltana And Tanana - Upr Tanana Vly Fortymile

1100AST

Rainfall of one to three inches over the Yukon-Tanana Uplands and greater Faribanks Area caused rivers to flood in a few areas: Zone 222:

The Upper Chena River at mile 37 Chena Hot Springs Road exceeded flood stage with one foot of water on the road on the 2nd. For the Upper Chena River between Chena Hot Springs Road and the Moose Creek Dam, flooding occurred on the morning of the 4th until the afternoon of the 5th. The flood waters were impounded behind the Moose Creek Dam for a while, being released gradually so that Downtown Fairbanks would not experience flooding. The impounding of the water created groundwater flooding of the Steamboat Landing subdivision in North Pole downstream from the Dam, until the morning of the 8th.

The Salcha River at the Richardson Highway Bridge crested one foot above flood stage early on the morning of the 4th, and was below flood stage by noon that day; flooding occurred at the boat launch at the Richardson Highway bridge, along with large amounts of debris being flushed down the river

Zone 224:

Several cabin owners on the upper Salcha River reported water around numerous structures

The flooding coincided with the opening of moose hunting season and a time when rivers are heavily used by hunters accessing remote areas. The Alaska State Troopers reported several incidences where stranded hunters were plucked from the banks of area rivers. Rescues occurred on the Upper Chena River (zone 222), Birch Creek (zone 220), and on the Yukon River (zone 220). Some vehicles were also flooded on the lower Chatanika (zone 222) as unsuspecting hunters parked close to the rivers edge prior to the rise in water

AKZ201>202-202

Western Arctic Coast - Northern Arctic Coast

1630AST 08 Storm Surge

11 0930AST

A 978 mb low moving east across the Arctic Ocean north of barrow decelerated after the 8th and circled counter-clockwise, ending up closer to Barrow (zone 202) on the 10th and 11th before finally moving away. Minor beach erosion occurred at Barrow on the 8th, then more substantial erosion occurred at Barrow on the 10th and 11th, with waves 10 to 12 feet on top of a high swell. Roads around Barrow which experienced erosion during the July storm, had further erosion with this event (Stevenson Street and Egasik Street). Some beach erosion occurred at the village of Wainwright (zone 201) during the 10th and 11th.

AKZ222 Middle Tanana Valley

12 0500AST 0 Flood

13 0900AST

An inch of rain fell over the Chena Basin creating high water on the Chena River which produced minor flooding of Chena Hot Springs Road at mile 37.

AKZ226

Ne. Slopes Of The Ern Ak Rng

28 1000AST High Wind (G50)

2015AST

A strong warm front moved north over the Alaska Range and produced south winds gusting to 58 mph through Isabel Pass, as reported by a pilot flying 300 to 400 feet above the ground. Mesonet meteorological stations maintained by the U.S. Army reported occasional wind gusts between 50 and 55 mph.

S	tori	m Data	and	Unus	ual W	/eatl	her Phen	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crops	Character of Storm	September 2003
ALASKA, Southeast									
	NOT	RECEIVED.							
ALASKA, Southern									
AKZ185		ern Aleutians							
	15	1155AST			0	0		High Wind (G73)	
								nd the associated front 235 pm at Dutch Harbo	
AKZ131		P.W. Snd	tu ili suolig	gusty willu til	at peaked at	54 mpn 6	etween 1133 am to 1	233 pin at Duten Harbo	
	18	0015AST			0	0	2.5K	High Wind (G60)	
		0315AST						, ,	
AKZ101-125	and hi was al		the interior he gusty wir	produced the nds.	gusty winds.	In Valde	z a temporary tent w	of strong low pressure is as destroyed and a sign High Wind (G76)	
	20	2359AST			v	v		riigii ((inu (G/0)	
AMERICAN SAMO	peaked occurr <u>A</u>		at 81 mph a					S at 0451 am AST Sep itor center are an estima	
ARIZONA, Central a									
Coconino County									
Doney Park	01	1145MST			0	0		Hail (0.88)	
	Dime	1200MST (3/4) to nickel si	zed (7/8 inc	h diamatar) h	oil fall in Do	any Dork			
Coconino County	Dille	(3/4) to lineker si	zeu (7/8 mc	ii diameter) ii		icy i aik.			
Flagstaff	01	1230MST			0	0		Hail (1.00)	
					0.77				
Coconino County	One in	nch diameter hail	fell 10 mile	s northwest o	f Flagstaff.				
Flagstaff	01	1240MST			0	0		Hail (1.00)	
r ingsturr	01	1245MST			v	v		11an (1.00)	
~ . ~	Quart	er sized (1 inch d	liameter) hai	l was reported	d in Hart Pra	rie. The	hail was two to three	inches deep after the sto	orm had passed.
Coconino County	01	1510MCT			0	0		II-9 (1 00)	
Sedona	01	1510MST 1525MST			0	0		Hail (1.00)	
	Quart	er sized (1 inch d	liameter) ha	il was reporte	d in southeas	t Sedona.			
Navajo County									
Snowflake	01	1520MST 1535MST			0	0		Hail (0.88)	
	Nickl	e sized (7/8 inch	diameter) ha	nil fell in west	ern Snowflal	æ.			
Coconino County									
Clints Well	01	1635MST			0	0		Flash Flood	
	Flach	1745MST	l State High	way 87 with 5	feet of wate	r about 17	miles northeast of C	linte Wall	
Yavapai County	1 18811	nooding covered	i State High	way or will S	icci oi wale	aoout 1/	mines normicast of C	mito Well.	
Mayer	02	1715MST 1725MST			0	0		Hail (0.75)	
	Dime	sized (3/4 inch d	liameter) hai	l was reported	d in Mayer.				
Coconino County									

Pea to penny sized (1/4 to 3/4 inch diameter) hail was reported in Highland Pines west of Prescott.

Hail (0.75)

Three-quarter to one inch diameter hail was reported at an elementary school in Flagstaff.

1400MST

Yavapai County

Prescott

		Time Local/	Path Length	Path Width	Path Number of Estimated Width Persons Damage			September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ARIZONA, Central ar	d No	rthoost							
Yavapai County	<u>10 110</u>	<u>i tileast</u>							
Prescott	05	0001MST			0	0	10K		Lightning
	Light	ning struck a radio	station in	Sedona and ca	used \$10,0	000 damag	e to electric	al equipme	ent.
Yavapai County Prescott	06	0955MST			0	0			Hail (0.75)
Trescott		1010MST							Hall (0.73)
	Dime	sized (3/4 inch dia	ameter) hai	l was reported	in Prescott	t.			
Navajo County									
Cibecue to	06	1530MST 1630MST			0	0			Flash Flood
(Sow)Show Low Muni A	Flash	flooding caused C	libeaue crea	ek rise 8 to 10	feet in the	town of C	ibeaue.		
Yavapai County			4						
Cordes Junction	07	1730MST 1745MST			0	0			Hail (1.50)
	Half	dollar sized (1 1/4	inch diame	ter) hail was r	eported 12	miles sout	theast of Con	des Juncti	on.
Gila County									
Roosevelt	09	0245MST 0500MST			0	0			Flash Flood
Coconino County	water.	, 4 to 6 feet deep, ge occurred in the Roosevelt Lake Ro	rushed thro southeast p	ough Roosevel ortion of the E	t Estates. T states at Pi	elephones ne and As	s, electricity h Streets. Al	and water oout 200 h	Pinto Creek and a nearby creek. A wall of service was knocked out. The worst of the omes were damaged, and 5 were destroyed. 288 and the Salt River was damaged by
Bellemont to	09	0810MST	4.5	100	0	0			Tornado (F0)
	an un these	populated ponder roads. It is estima	osa pine for ted that ov	rest. The torn er a hundred to	ado crosse rees were u	ed several aprooted or	Forest Server snapped of	ice roads a f. Some o	emont. The tornado moved northeast though and Highway 180 and knocked trees across of the tress were over 2 feet in diameter. The p path had damage.
Coconino County		1000000							
Tuba City	09	1230MST 1400MST	C 4 G	1: : 1	0	0 	- C't		Flash Flood
Navajo County	Heav	y rain caused signi	11000	nng in and arc	ound the to	wn or Tub	а Спу.		
White Cone	09	1315MST 1330MST			0	0			Thunderstorm Wind (G50)
	A roc	of was blown off a	building in	White Cone.					
Navajo County									
White Cone	09	1315MST 1400MST			0	0			Flash Flood
N O	Heav	y rain and flooding	g washed ou	it several road	s in the Wl	hite Cone	area.		
Navajo County Shonto to	00	1640MCT			0	0			Florin Florid
Kayenta	09	1640MST 2030MST			U	U			Flash Flood
220,020	repor	ral thunderstorms j	ms as they	moved throug					e in the afternoon. Significant flooding was re washed out near Kayenta. Vehicles were
Apache County	Strain	aca ana me people							
Wide Ruin	09	1850MST 1915MST	1	100	0	0			Tornado (F0)
N	A tor	nado uprooted tree	s 12 miles	west of Wide I	Ruins.				
Navajo County	00	10203 fCT			•	0			
Polacca	09	1930MST 2030MST			0	0			Flash Flood
Anacha Countri	Heav	y rain cause flash f	looding ne	ar the commun	nity of Pola	cca. Buse	s were trapp	ed by the	flood waters.
Apache County Ft Defiance to	09	2045MST			0	0			Flash Flood
Chinle		2300MST	tomme mue 1	wood floob floo			utu from E	t Doffees	
	A lar	ge area of thunders	torms prod	ucea Hash Hoo	oung in Ap	pacne cour	ny irom For	Denance	norm to Chinie.

		Time Local/	Path Length	Path Width	Numl Pers	ber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
ARIZONA, Northwest									
Mohave County									
Lake Havasu City	03	2023PST 2235PST			0	1	15K		Flash Flood
		f from heavy		car to be swe	ept off the roa	nd into a v	wash. One w	oman insi	de the car was rescued and taken to a local
ARIZONA, South	hospit	al with undisc	losed injuries.						
Graham County									
Safford	06	1720MST 1840MST			0	0	0	0	Flash Flood
	Thund	erstorms deve	loped and mo	ved over sou	thern portion	s of Saffo	ord producir	ig heavy r	ain. Doppler radar estimated one to three
			allen over the s due to the flo	_	he storm ever	nt. Sever	al properties	in the Da	aley Estates area flooded and police had to
Cochise County	barrica	ide some roads	s due to the mo	ouing.					
Charleston	06	1820MST 1940MST			0	0	0	0	Flash Flood
								a	
									ounty producing heavy rain. Doppler radar rleston. Sherif dispatch closed Charleston
G 11 G 4			an Pedro River						
Cochise County Hereford	08	1355MST			0	0	0	0	Hail (0.75)
		1400MST							
	A seve	ere thunderstor	rm developed	over the Here	eford area pro	ducing la	rge hail. A	spotter rep	oorted hail ranging in size from a half of an
Cochise County	inch to	three quarters	s of an inch in	diameter.					
Douglas	08	1530MST			0	0	0	0	Flash Flood
		1630MST							
									ooding. A spotter recorded 1.80 inches of
			nour. Several		also closed d	lue to floo	oding, inclu	ding an in	tersection at Golf Course and Washington
Pima County									
Tucson	08	1615MST 1620MST			0	0	0	0	Hail (1.00)
	A cava		m moved sere	see coutharn n	portions of Tu	ccon prod	ucina larga l	hail Acn	otter reported one inch diameter in size hail
		ano and Golf		ss soumem p	ornons or Tu	cson prou	ucing large	пан. А ѕр	otter reported one inch diameter in size han
ARIZONA, Southwest									
La Paz County Quartzsite	02	1920MST			0	0	200K		Thunderstorm Wind (G70)
Quai izsite		1930MST							, ,
									ailers were overturned. The Desert Gardens royed Signs along I-10 were blown down,
M 1 G 1			y 95 was close		_				
Maricopa County Wickenburg	04	1740MST			0	0			Hail (1.00)
		1830MST	1 7 6				1 177		
Maricopa County	Severa	al reports of la	rge hail, from	dime size to	one inch dian	neter, in a	and near Wi	ckenburg.	
Tempe	04	1834MST			0	0			Hail (0.75)
		1837MST							
Maricopa County	0.4	10.453.607							TI 1 (W. 1 (C(0))
Phoenix	04	1845MST 1855MST			0	0			Thunderstorm Wind (G60)
Mariana Camta	Shingl	les blown off r	oof.						
Maricopa County Wickenburg	04	1855MST			0	0			Flash Flood
6		1930MST	hout 150 f	wida and Fi			no full 🖼	odina -1-	
Maricopa County	SOIS V	vasn grew to a	iooui 150 feet	wide, and Fly	ymg ⊏ wasn v	was runnii	ng ruii. Flo	ouing clos	ed Vulture Mine Road due to flooding.
3 S Waddell	04	1900MST			0	2			Flash Flood
		2100MST							

Flash Flooding at the entrance to the White Tank Mountain Regional Park near the intersection of Olive Rd and Citrus Rd. Very heavy rain occurred in the area between 7:00 PM and 9:00 PM MST. A vehicle with two male occupants was swept off of Olive Rd. around

		Time Local/	Path / Length		Numb Perso		Estimated Damage	September 2003	
Location	Date	Standard	(Miles)	Width (Yards)	Killed	Injured	Property Crops	Character of Storm	
ARIZONA, Southwe	est								
	water		enforcement	had to be co	nducted after	they bec	ame trapped in rushi	he wash approximately 60 yards. A swift ng water approximately 3 feet deep. The	
Maricopa County Paradise Vly	06	1410MST 1420MST			0	0		Thunderstorm Wind (G60)	
ARKANSAS, Centra				rted at the inte	ersection of 50	Oth St. and	d Lincoln Ave. in Para	adise Valley.	
Izard County	ai aiiu iv	orm centra	<u>a1</u>						
Guion	02	0536CST 0830CST			0	0		Flash Flood	
Izard County 5 SW Mt Pleasant	02	0625CST 0845CST			0	0		Flash Flood	
Izard County Countywide	02	0720CST 0845CST			0	0		Flash Flood	
		rains resulted			rge part of Iz	ard Coun	ty. A number of cou	inty roads were covered by high water and	
Sharp County	Closed	Tor several flou	is after the ra	ilis cilded.					
Ash Flat	02	0650CST 1130CST			0	0		Flash Flood	
Sharp County									
Highland	02	0650CST 1130CST			0	0		Flash Flood	
Sharp County									
Countywide	02	0745CST 1130CST			0	0		Flash Flood	
							ber of highways and or or damage was reporte	county roads were closed due to high water d.	
Stone County Marcella	02	0800CST			0	0		Flash Flood	
Marcena	02	0930CST			U	U		Flash Flood	
Stone County									
Pleasant Grove	02	0800CST 0930CST			0	0		Flash Flood	
		rains caused fl			d around the	towns of	Pleasant Grove and M	Marcella. Several county roads were closed	
Ouachita County	duc to	night water for a	i short period	or unic.					
Camden	11	1800CST 2000CST			0	0		Flash Flood	
1 DY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Heavy	rains resulted i	n flash floodi	ing in Camde	n. Several roa	nds in tow	n were under water fo	or a few hours.	
ARKANSAS, East									
Randolph County Countywide	02	0945CST			0	0	1K	Flash Flood	
	Sever	1100CST al roads became	impassable d	due to floodin	g.				
ARKANSAS, North	<u>west</u>		-						

NONE REPORTED.

ARKANSAS, Southeast

NONE REPORTED.

, L	Stori	m Data	and	Unus	ual W	^l eat	her Phe	nomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Pers Killed		Estimated Damage Property Crop	os Character of Storm	September 2003
ARKANSAS, South	west								
<u>CALIFORNIA, Extr</u>		E REPORTED. utheast							
CALIFORNIA, Nor		E REPORTED. <u>ral</u>							
CALIFORNIA, Nor		E REPORTED.							
El Dorado County Meeks Bay	04	1340PST			0	0		Hail (1.00)	
Plumas County	One i	nch hail reported	near Meeks	Bay by U.S.	Coast Guard				
Beckwourth	04	1530PST			0	0		Hail (1.00)	
CALIFORNIA, North		rted by spotter.							
3 SW Weott	03 30 Hone	0700PST 1159PST cydew/Canoe Con	nplex		0	0		Wildfire	
Mendocino County 10 NE Covelo	03 12 Cove	0700PST 1200PST lo Complex			0	0		Wildfire	
Trinity County 4 E Del Loma	03 22 Loma	0700PST 1200PST			0	0		Wildfire	
	Lighti condi Honey contai	ning sparked nur tions. Over 50 t ydew/Canoe Con	otal fires wo nplex near V er 22. The O	ere ignited. Veott with 22 Covelo Comp	By September, 000 acres but blex near Cov	r 30, app rned at the	proximately 26,000 he end of the mon- ed 240 acres and v	s. The fires grew rapi d acres were burned. T th. The Loma Fire burn was contained on Septem	ne largest fire was the ed 3740 acres and was
Trinity County 8 E Forest Glen	04	1640PST 1650PST			0	0		Hail (0.75)	
CALIFORNIA, Sout	th Cent	<u>ral</u>							
Mariposa County 25 N Yosemite Vlg	01 30	0000PST 2359PST	fire having	ctorted July ?	0 Oth by lightn	0 na burne	ad through the mor	Wildfire th of September as a res	ource burn. By the end
Tulare County		e month it had rea						iui of September as a res	ource burn. By the end
14 E Wilsonia	mont East I Cany	h of September. I Fork, West Timb	Fires within er, Tar Gap	this complex 1, Tar Gap 2	included Wi , Fry Pan, So	lliams, W da Spring	Vest Kern, Giant, S gs, and Paradise 2.	Wildfire continue to burn as res Slide Bluffs, Bubbs, Wes Acreage burned: 5790 e Inyo National Forest.	t Clover, High Bridge acres in Sequoia-Kings
Mariposa County					0			XX/*X 10*	
2 N Yosemite Vlg	01 30 The I	0000PST 2359PST Duncan Complex	Fire was im	nited by light	0 ning in July.	0 and allow	ved to continue to	Wildfire burn through September	as a resource burn Ry

Kern County 1 S Edwards Afb to 3 N Edwards Afb Thunderstorm Wind (G46) 02 1650PST 1K 1715PST

The Duncan Complex Fire was ignited by lightning in July, and allowed to continue to burn through September as a resource burn. By the end of September it had consumed 1284 acres at an accumulated cost of \$100K.

		Time Local/	Path Length	Path Width	Numi Pers	ber of	Estimated Damage	September 2003
ation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
LIFORNIA, South	Centr	<u>al</u>						
ulare County Johnsondale to California Hot Spgs	02	2200PST 2300PST			0	0		Lightning
ulare County Sequoia National Par	03	0000PST 0600PST			0	0		Lightning
	least a strong, thunde	couple of micro , gusty winds o erstorm activity in vere started by li	bursts in and ccurred later moved from	around Edw at meso-ne the Kern De	vards AFB ju t sites northy eserts into the	st before : vest and : Kern Mo	5 PM PST as some mi north of Edwards. Ne ountains and Tulare C	oon of the 2nd. Spotter reports indicated at nor damage was reported in Rosamond and early 50 lightning strikes were reported as ounty Mountains by late evening. Over 14 gs National Park area of the Tulare County
adera County 8 SW Mammoth Mount	03	0000PST			0	0	64K	Wildfire
	30 The C	2359PST			ning on the 3			the month for resource benefits. By the end
ariposa County 7 NW Yosemite Vlg	03	1012PST 1712PST			0	0		Heavy Rain
resno County 5 N Huntington Lake to 7 N Huntington Lake	03	1453PST 1515PST			0	0		Heavy Rain
	shower	rs occurred the	afternoon of	the 3rd. Fro	om White W	olf RAW		lare County Mountains, locally heavy rain red within a 6 hour time period. A strong e area.
ern County Bodfish to 4 SE Weldon	03	1636PST 2100PST			0	0	10K	Heavy Rain
ern County Democrat Spgs	03	1646PST 1715PST			0	0		Lightning
ern County Lake Isabella	03	1646PST 1715PST			0	0	15K	Hail (0.01)
AZ097	Tular 03	re Cty Mtns 1729PST 2018PST			0	0		Landslide
	County hailed occurre	y and northward and damaged ca ed onto the road h, water ponded	l into the Tu ars at the tow l north of K	llare County n of Lake Isa ernville due	Mountains. A abella. Dry lig to locally he	A severe ghtning st avy rains.	thunderstorm with rac rikes occurred to the v Urban and small stre	weather to the Lake Isabella area of Kern dar reflectivity of 70 dBz and a VIL of 53 west of town near Democrat and rock slides cam flooding caused damage to a house in southeast of Weldon due to water on the
ılare County 45 E Porterville	03	1700PST			0	0		Wildfire
43 E I OI CI VIIIC	30 The A	2359PST	_		Forest was lig	ghtning ig		rned 175 acres by the 30th as it was allowed
ulare County				•	•			
40 E Visalia			•			-	-	Wildfire I allowed to burn throughout the month. As
AZ098		n Wells Vly	sumeu 230 a	cies at a cost	. σι φδ24 K Wl	ш по гата	lities or injuries nor st	ructures 10st.
	09	1700PST			0	0	1K	Strong Wind
	Gusty		r the Kern D	esert areas o	n the 9th with	n wind sp	eeds commonly report	ed 35 to 45 MPH but higher speeds over 50
	Gusty	2200PST						

		Time Local/	Path Length	Path Width	Numb Perse		Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
CALIFORNIA, South	Centr	<u>al</u>							
Tulare County 60 ESE Porterville			ad an unknowr		0 r Chimney Pe	0 eak in so	460.6K utheast Tulare County	Wildfire . It consumed 388 ac	res at a cost of \$460K.
CALIFORNIA, Souther San Bernardino County	<u>east</u>	anties occurre	a nor were sur	ictures iost.					
Twenty Nine Palms	04 A says	1430PST 1445PST	rm produced c	olf ball sizad	0 hail in Twant	0 unina Bal	50K	Hail (0.01)	
CALIFORNIA, South		ere inundersio	rm produced g	on ban sized	nan in Twent	ynine Pai	ims.		
Riverside County 3 N Moreno Valley	02	1030PST 1248PST			0	0		Wildfire	
	no pro		10 acres in the or injuries occ	_	e of Moreno V	/alley be	fore being fully contain	ned. Several residence	es were threatened but
San Bernardino County									
1 NW Yucca Vly to 1 SE Lcrne Vly Soggy Dry	02	1318PST 1414PST			0	0	60K	Flash Flood	
D: 11 G	Severa	l roads underv	water and/or w	ashed out. Wa	ashes running	full.			
Riverside County 13 SW Palm Spgs	02	1415PST 1500PST			0	0		Flash Flood	
a 54 a .	One cl	nannel of Palm	n Canyon Wash	n flooded.					
San Diego County Descanso	02	1425PST 1430PST			0	0		Hail (1.25)	
San Diego County 2 NE Santa Ysabel to 8 W Julian	02	1425PST 1430PST			0	0	50K	Flash Flood	
		rain caused fl south in Desc		idslides acros	s Highway 79	and Me	esa Grande Road. At a	bout the same time, la	arge hail was observed
San Diego County 2.5 SE Santa Ysabel to 3.5 E La Mesa	02	1455PST 1505PST			0	0		Lightning	
	Lightn	ing started six	separate fires,	but fire fight	ers and heavy	rains pu	t them out before any	major damage occurr	ed.
San Diego County 2 W La Mesa	02	1530PST 1600PST			0	0	10K	Flash Flood	
	West b	ound lanes of	Interstate 8 ne	ar College Av	venue were flo	ooded.			
Riverside County 5 NE Indio	02	1736PST 1810PST			0	0		Flash Flood	
	Large	flood coming	from hills, hea	ding toward I	ndio Hills sub	division.			
Riverside County 3 E (Ral)Riverside Muni	03	1106PST 1200PST			0	0	50K	Wildfire	
San Bernardino County		sh fire burned	power lines and	d self-storage	units along H	lighway	91 just north of Central	Avenue.	
1.5 S Phelan	03	1318PST			0	0		Heavy Rain	

Visibility near zero, standing water on Highway 138.

Local/ Length Width Location Date Standard (Miles) (Yards) CALIFORNIA, Southwest San Diego County Camp Pendleton 03 1400PST 1800PST A brush fire burned 40 acres at Camp Pendlet CAZ055 San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding. San Bernardino County	ton. No structur 0 elped saturate theservers stated	0 he soil. A it took abo	80K thunderstorm mov	Wildfire
San Diego County Camp Pendleton 03 1400PST 1800PST A brush fire burned 40 acres at Camp Pendlet San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	on. No structur o elped saturate the	o he soil. A	80K thunderstorm mov	uries were reported.
San Diego County Camp Pendleton 03 1400PST 1800PST A brush fire burned 40 acres at Camp Pendlet San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	on. No structur o elped saturate the	o he soil. A	80K thunderstorm mov	uries were reported.
Camp Pendleton 03 1400PST 1800PST A brush fire burned 40 acres at Camp Pendlet CAZ055 San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	on. No structur o elped saturate the	o he soil. A	80K thunderstorm mov	uries were reported.
A brush fire burned 40 acres at Camp Pendlet San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	0 elped saturate theservers stated	0 he soil. A it took abo	80K thunderstorm mov	•
CAZ055 San Bernardino County Mountains 04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	0 elped saturate theservers stated	0 he soil. A it took abo	80K thunderstorm mov	•
04 1145PST 1210PST Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	elped saturate the	he soil. A it took abo	thunderstorm mov	Landslide
Heavy rains over the previous three days he inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	elped saturate the	he soil. A it took abo	thunderstorm mov	
inches of rain that triggered a landslide. Ob mountain to the valley floor. About 300 feet Bear City also caused localized flooding.	servers stated	it took abo		
mountain to the valley floor. About 300 feet Bear City also caused localized flooding.			out 20 minutes for	ring along the ridge top dropped another 0.60
Bear City also caused localized flooding.	or roud were e	o rerea m		
San Bernardino County			1001 1001 01 11100	and large coulders from y downpoins in 2.g
•				
.5 S Phelan to 04 1230PST	0	0	20K	Lightning
1.5 S Phelan 1300PST				
San Bernardino County				
Yucca Vly to 04 1330PST	0	0	10K	Flash Flood
1 W Phelan 1410PST	v	v	TOIX	Flash Flood
Flash flooding was observed in Yucca Valle	ev and Phelan.	Lightning	from the same the	understorms also struck two power poles and
started small brush fires in Phelan.	•	0 0		1
Riverside County Banning to 04 1249PST	0	0	30K	Flash Flood
4.5 E Hemet 1339PST	v	Ü	0011	2.000
Heavy rain and 0.25-0.5 inch diameter hail f	ell from thunde	erstorms o	ver the San Jacinto	Mountains. Flash flooding occurred on roads
leading into Banning and east Hemet.				
San Diego County Pine Vly to 04 1319PST	0	0	30K	Flash Flood
Descanso 1400PST				
Heavy rain from thunderstorms, flash flooding	g reported in Pi	ine Valley.		
San Diego County Campo to 04 1400PST	0	0	20K	Flash Flood
Julian 1500PST	v	v	2013	Flash Flood
San Diego County				
Campo to 04 1400PST	0	0		Hail (0.75)
Julian 1500PST				
Dime size hail, flash flooding, and mud slides	s observed along	g Highway	S2.	
Riverside County 12.5 E Anza to 04 1403PST	0	0	100K	Flash Flood
Pine Cove 1500PST				
Thunderstorms formed over the west side of	the San Jacinto	o Mountai	ns and moved slow	vly north. Highways 74 and 243 were covered
with mud and debris from flash flooding. Ni brush that burned about a half acre below Pin				l water damage. Lightning also started a small
San Diego County	e Cove before i	it was com	amed.	
Julian to 04 1430PST Santa Ysabel 1501PST	0	0		Hail (0.75)
Santa i sabei 1501F51				
CAZ062 San Diego County Deserts	Λ	Λ		Dust Storm
04 1440PST 1450PST	0	0		Dust Storm
Large hail was observed near Iulian and at S	Santa Ysahel D	Owndraft	winds of 40 mph a	and blowing sand were observed near Borrego
Springs.	Juliu I Subel. D	. o minimuit	от 40 трп а	and one ming said were observed from Bollego
San Diego County Santa Ysabel to 04 1455PST	0	0		Flash Flood
Julian 1502PST	U	v		Piasii Piood

Roads flooded in Santa Ysabel and along Sunrise Highway in Julian.

		Time Local/	Path Path Length Wie				Estimated	September 2003	
Location	Date	Standard	(Miles)	Width (Yards)	Killed	Injured	Damage Property Crops	Character of Storm	
CALIFORNIA, South	west								
San Diego County									
1 NE Santa Ysabel to 4 NE Borrego Spgs	04	1704PST 1851PST			0	0	60K	Flash Flood	
	Flash	floods covered n	nain roads an	d highways v	vith mud and	water fro	m Santa Ysabel to eas	st of Borrego Springs.	
Riverside County Anza	05	1235PST			0	0	20K	Flash Flood	
AliLa	03	1315PST			v	v	20IX	Flash Flood	
		sive flooding was 5 inch diameter			Anza after 2.	5 inches	of rain fell in 65 min	utes. Wind gusts were measured at 50 mph,	
San Diego County	and O.	J men diameter	nan was also	observed.					
3 E Palomar Mtn to Warner Spgs	05	1330PST 1400PST			0	0		Flash Flood	
San Bernardino County		ing was observed	d between Pa	lomar Mount	ains and War	ner Sprin	gs.		
San Bernaramo County									
5 NE Highland to 1.5 SE Lake Arrowhead	05 10	1404PST 1404PST			0	9	200K	Wildfire	
	Park, I were c	Nob Hill, Encha closed for severa	inted Forest, l days. Prope	and part of F rty damage w	Running Sprin	ngs, affec to guardr	ting more than 1000 rails, power lines, and	vacuation of the towns of Fredalba, Smiley residents. The main highways, 330 and 18, traffic signs along the highway corridors, in	
San Bernardino County		on to one out our	idiig. Cost o	i fighting the	me were me	excess of	\$2.3 million dollars.		
2 SW Loma Linda to 2 S Loma Linda	12 13	1500PST 0100PST			0	0		Wildfire	
	A brus	sh fire consumed	l 175 acres be	efore being co	ontrolled. No	homes or	structures were endar	ngered and no injuries were reported.	
San Bernardino County	7								
6 S Hesperia	17	1240PST 1445PST			0	0		Wildfire	
		sh fire consume hters contain the		•		al homes	in the Oak Hills sub	division of Hesperia. Lack of winds helped	
Riverside County 1 NW Beaumont to	23	0928PST			0	0		Wildfire	
2 W Beaumont	23	1100PST			v	U		whalie	
							ed 110 acres in a dry	wash. Homes were threatened along Elm	
CALIFORNIA, Upper		ie near Oak Vall	ey Parkway	and in Three	Rings Ranch	Project.			
Modoc County	-								
Countywide	03	1200PST 2045PST			0	0		Lightning	
Siskiyou County									
Countywide	03	1200PST 2045PST			0	0		Lightning	
	lightni	I Flag Warning ing. The line w	eakened befo	ore arrival, b	ut a number	of strikes		approaching from the south containing dry nern California. However, verification was ng Warning.	
Siskiyou County	10	0.4225			_			*****	
Countywide	12 14	0632PST 1105PST			0	0		Wildfire	
	See be	elow.	uon innund aft	factive of the	abova tima- f	or fire	oothor zonos 2001-:	ph includes western Sistings sounts	
	A Ked	rrag warning v	vas issued eff	ccuve at the	aoove umes I	or me we	auter zones 280, Which	ch includes western Siskiyou county.	

Strong offshore winds were expected. The strong winds occurred on the first night...but relative humidity recoveries were high enough not to verify the warning in most areas. The second night the winds abated but the recoveries were poor.

The Slater Butte RAWS and the Collins Baldy RAWS verified the warning on both nights. This was a strong offshore event and a critical fire weather pattern, so the warning was justified as far as the fire weather agencies were concerned.

		Time	Path	Path	Number		Estimated		September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persor Killed l	ns Injured	Damage Property Crops	Character of Storm	1
						,	1 7 1		
CALIFORNIA, Upper CAZ084>085		4 C! - 1-!	- A J N74		C4	М. J.	- Ct		
CAZ004>005	North 15	neast Siskiyou 1452PST	ı Ana Nort	inwest Moa	oc Counties 0	- Moao 0	c County	Frost/Freeze	
	16	0800PST			v	v		11050110020	
	See be		issued for th	a abova zona	a tha night of (00/15 16	Danartad lass tame	aretures repead from	24 to 47 some some
		ost likely did fo				19/13-16.	Reported low temp	beratures ranged from	34 to 47some some
CAZ084>085		ıeast Siskiyoı	-			- Modo	c County		
	16	0300PST			0	0		Frost/Freeze	
	17 See be	0800PST clow.							
	A Fros	t Warning was		e above zone	s the night of (09/16-17.	Reported low temp	peratures ranged from	22 to 31so a killing
CA 7004-005		kely occurred th	-		C4'	M-J-	- Ct		
CAZ084>085	North 17	neast Siskiyou 1445PST	ı Ana Nort	inwest Moa	oc Counties 0	- Moao 0	c County	Frost/Freeze	
	18	0800PST			v	v		TIOSUTTECEC	
	See be		: 1	1	- 41 :-1-4 -£ (00/17 10	D 1 1 4		24 +- 27 1-:11:
		st warning was kely occurred th		e above zone	s the night of ()9/1/-18.	Reported low temp	beratures ranged from	24 to 37so a killing
Siskiyou County		•	J						
Countywide	21 23	0635PST 0610PST			0	0		Wildfire	
	See be								
									Siskiyou county. This
CALIFORNIA, West S		-	veral RAWS	stations in the	e area, includin	g Slater I	Butte, Blue Ridge, a	nd Collins Baldy.	
Los Angeles County	<u>Journ</u>	Central							
7 ESE Pearblossom	03	1300PST			0	0		Flash Flood	
	Strong	1330PST	undarstorms	moved across	s the Antelone	Valley	producing heavy or	d flach flooding. Ale	ong Largo Vista Road,
								vehicle was stranded	
CALIFORNIA, Wester	<u>rn</u>						-		
	NONE	E REPORTED.							
CARIBBEAN SEA AN	D TR	OPICAL A	TLANTI	<u>C</u>					
Cp Fear To Little R Inlet Nc Out 20Nm									
2 SW Shallotte Inlet to	01	1340EST			0	0		Waterspout	
1 SW Shallotte Inlet	01	1350EST			v	v		waterspout	
			ted a watersp	out a mile of	fshore of Ocea	ın İsle Be	each. The waterspo	ut moved northeast	parallel to shore before
Jupiter Inlet To	dissipa	ating.							
Deerfield Beach Fl 20									
To 60Nm									
5 NE Boca Raton	05	1300EST			0	0		Waterspout	
	The Be	each Patrol saw	a large wate	rspout in the	Atlantic about	two and	one half miles offsho	ore of Delray Beach.	The waterspout moved
D 611D 17	slowly	west before dis	ssipating abo	ut one half mi	le offshore.				
Deerfield Beach To Ocean Reef Fl									
17 SE Port Everglades	08	1110EST			0	0		Waterspout	
8								•	
Jupiter Inlet To	A pilo	t saw a watersp	out in the At	lantic.					
Deerfield Beach Fl 20									
To 60Nm									
10 SE Port Of Palm Beau	13	0900EST			0	0		Waterspout	
	A pilo	t and the public	reported a w	aterspout in t	he Atlantic abo	out 5 mile	es east of Lake Wort	h.	
Jupiter Inlet To	F.1.0	Pacife		F = 30 111 t					
Deerfield Beach Fl 20									
To 60Nm	10	0754ECT			Δ	0		Watersnert	
12 NNE Boca Raton	19	0756EST			0	0		Waterspout	

The public reported a waterspout in the Atlantic one mile east of Boynton Beach.

		Time Local/	Path Length	Path Width	Per	ber of sons	Estin Dan	nage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
CARIBBEAN SEA AN	D TF	ROPICAL AT	ΓLANTI	<u>C</u>					
Jupiter Inlet To Deerfield Beach Fl 20									
To 60Nm									
15 ESE Port Of Palm Be	19	1524EST			0	0			Waterspout
	A SK	YWARN spotter	saw a water	rspout in the A	Atlantic 15 m	iles offsh	ore.		
Carib Waters E Cst Pr									
Thru Usvi Christiansted Harbor	21	1213AST			0	0			Waterspout
		1227AST			-				
	A wat	erspout was repor	ted by a pile	ot flying in the	e vicinity of	St Thoma	ıs.		
Jupiter Inlet To Deerfield Beach Fl 20									
To 60Nm									
15 E Boca Raton	25	0800EST			0	0			Waterspout
	A wat	terspout was seen	in the Atlan	ntic					
St Augustine To Flagler		F							
Beach Fl Out 20Nm	•	100500							
5 ESE Flagler Beach	26	1025EST 1035EST			0	0			Waterspout
	Spotte	ed by Flagler Cou	nty Sheriffs	officer, near	ly stationary	'.			
Jupiter Inlet To Deerfield Beach Fl 20									
To 60Nm									
10 E Port Of Palm Beach	26	1657EST			0	0			Waterspout
	ΔSK	YWARN spotter	saw a water	rspout in the A	Atlantic 10 m	iles offsh	ore Palm Re	each Shore	s
Deerfield Beach To	ABK	1 WART spotter	saw a water	ispout in the z	manue 10 n	ines onsir	ore rann be	acii siiore.	s.
Ocean Reef Fl									
6 SE Government Cut	29	1700EST			0	0			Marine Tstm Wind
	Fowe	y Rocks C-Man r	neasured a t	hunderstorm	wind of 35 k	nots.			
Jupiter Inlet To									
Deerfield Beach Fl 20 To 60Nm									
3 E Port Of Palm Beach	30	1703EST			0	0			Waterspout
	A wat	terspout was seen	in the Atlan	ntic offshore F	Palm Beach				
COLORADO, Central			in the 7 than	nic offshore i	ann Beach.				
Clear Creek County									
Idaho Spgs	03	1315MST 1500MST			0	0		0	Flash Flood
	Very		ed out parts	of Virginia C	anyon Road	near Idah	o Springs.	Up to 4 fe	et of mud reportedly washed down the road
									s including the main street, were also buried
	station	_	me building	gs in town als	o experience	ea minor i	looding, inc	rluding the	basement of the town library and the polic
COLORADO, East Ce									
	NON	E REPORTED.							
COLORADO, South C			<u>ast</u>						
Fremont County									
8 ESE Penrose to 10 ESE Penrose	05	1647MST 1703MST	2	75	0	0			Tornado (F0)
10 202 1 011 000	A wea		pen country	of extreme ea	astern Fremo	ont county	caused no l	known dan	nage. It passed into extreme western Puebl
Duchle Court-	count	y.							
Pueblo County 10 WNW Pueblo West to	05	1703MST	1	75	0	0			Tornado (F0)
9 WNW Pueblo West		1710MST							
		ak tornado over o ne eastern Fremo		y of extreme	western Pue	blo county	y caused no	known da	mage. It was the tornado that originated in

extreme eastern Fremont county.

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimate Damage Property	e	Character of Storm	September 2003
COLORADO, West COZ001>014-017>023	Mour Basin And River San J	ntains - Uppe 1 - Grand An Uncompahgi · Valley - Un	er Yampa I d Battleme re River Ba ncompahgro ins - Parad	River Basin nt Mesas - asin - Wes e Plateau A ox Valley /	n - Grand Gore And t Elk And And Dallas Lower Dol	Valley - Elk Mou Sawatch Divide	Debeque T intains/Cen i Mountain - Northwest	o Silt Co tral Mou s - Flatto tern San Four Cori	rridor - Centr ntain Valleys - op Mountains - Juan Mountai	Elkhead And Park al Colorado River Central Gunnison Upper Gunnison ns - Southwestern olores River Basin
San Miguel County 9 N Egnar	portion		Colorado. Ho	owever, sever	re to extreme	drought c	onditions con	tinued throution.		uthwest Colorado and oss western Colorado.
Montrose County 7 SE Montrose	Very h	neavy rain causo 1620MST 1640MST	ed dry washes	s to run full fo	or 15 to 30 mi	inutes.		1	Heavy Rain	
Montezuma County Stoner	0.75 o	f an inch of rair 1230MST 1240MST	n fell in 20 mi	nutes and res	ulted in mino	or flooding		1	Heavy Rain	
La Plata County 6 N Durango to 10 N Durango	0.50 o	f an inch of rair 1305MST 1500MST	n fell within 1	0 minutes and	d resulted in 1	minor floo 0	ding.	1	Flash Flood	
Pitkin County 10 NNW Redstone to 10 N Redstone		f from heavy r vay 250. A rollo 1600MST 1700MST		•	-			e road.	nes of water flow Heavy Rain	ing across portions of
Garfield County 1 N Carbondale		rainfall resulterns, road crews						later.	ck got stuck in th Heavy Rain	e mud. Due to safety
Mesa County Mesa		1635MST rainfall resulted on the road we 1805MST 1810MST				e intersecti 0	on of Highwa		Highway 133. Th	e largest boulders that
Garfield County Glenwood Spgs	08	1825MST 1835MST			0	0		1	Hail (0.75)	
COZ008	Centi 08	ral Colorado 1900MST 1905MST	River Basi	n	0	0		1	Landslide	
La Plata County La Plata Co Arpt	-	rain caused meast bound and votated of the caused meast bound and votated to the caused measurement of the caused measurem			_			urs.	ngs between mile Heavy Rain	markers 124 and 126.

A potent storm system brought copious amounts of moisture to southwest Colorado resulting in near record rainfall across portions of La Plata County. The AWOS at the Durango-La Plata County Airport recorded 3.58 inches of rain in the 12 hour period from 0700 to 1900. Minor flooding occurred 2 miles northeast of the airport near the intersection of Highway 172 and County Road 311.

•	.	Time Local/	Path Length	Path Width	Per	nber of rsons	Estim Dam	age	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
COLORADO, West Montezuma County 24 SW Cortez	09	1030MST			0	0			Flash Flood
		1100MST							
La Plata County		ears became stuc	k in deep mu	d flows as fla			Highway 49	91 near mil	
9 N Durango to 7 N Bayfield	09	1115MST 2300MST			0	0			Flash Flood
COZ019	flows in son debris debris	in and around the places. Water flows 3 feet deflows.	e Missionary and debris fl ep. Debris flo	Ridge Fire b ows estimated ows 1 to 2 fee	urned area. d at 1800 C	County Ro FS occurre	oad 250 was d in Stevens	closed due Creek. Fl	ing in widespread flash flooding and debris to mud and debris flows, up to 9 feet deep ash flooding near Freed Canyon resulted in Road 501 was also closed due to mud and
COZ019	99 10	hwestern San 1200MST 0600MST	Juan Mou	intains	0	0			Winter Weather/Mix
	snow		son for the so	uthwest San .					Colorado also resulted in the first significant 0 inches were reported above the 9000 foot
La Plata County 9 W Durango	09	1300MST 2300MST			0	0			Flash Flood
	Water	up to 12 inches	deep flowed	across roads	in the area.				
La Plata County Hesperus	09	1300MST 1400MST			0	0			Heavy Rain
San Miguel County	Heavy	rainfall resulted	d in street flo	oding in the H	lesperus are	a.			
2 SE Placerville	09	1530MST 1730MST			0	0			Flash Flood
Market Control		/ rain caused a r narker 82.	apid flow of	water and de	bris which o	deposited r	nud 10 inch	ies deep al	ong a 30 foot stretch of Highway 145 near
Montezuma County Yellow Jacket to Pleasant View	09	1735MST 1745MST			0	0	12K	100K	Hail (1.50)
Dolores County	Large	hail destroyed n	nany acres of	crops. The h	ail also dan	naged man	y fruit trees,	as well as	rural houses and farm buildings.
8 S Dove Creek to 7 SW Dove Creek	09	1750MST 1800MST			0	0	5K	30K	Hail (1.00)
Montezuma County	Large	hail destroyed s	everal hundre	ed acres of pir	nto beans. F	Rural house	es and farm	buildings v	vere also damaged.
Cortez to 5 SW Cortez	09	1900MST 2300MST			0	0	10K		Flash Flood
Montezuma County	Flash	flood waters one	foot deep flo	owed through	streets in C	ortez. And	l a road at th	ne Cortez N	Municipal Airport was washed out.
8 W Cortez	09	1900MST 2300MST			0	0	20K		Flash Flood
Ditkin Country	Flash	flood waters was	shed out seve	eral roads in th	ne McElmo	Canyon ar	ea.		
Pitkin County 6 N Redstone	09	2038MST 2043MST			0	0			Hail (1.00)
Mesa County 1 NW Fruita	10	0358MST 0408MST			0	0			Hail (0.88)
Mesa County Redlands	10	0400MST 0405MST			0	0			Hail (0.88)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estimated Damage Property Cro	•	mber 2003
	Duit	Startage	(IIIIes)	(14145)	Timou	mjarea	Troperty Cro	po Cimilación de Diolini	
COLORADO, West Garfield County Glenwood Spgs	10	0630MST 0730MST			0	0		Flash Flood	
COZ004-009>010- 012>013-018	near th	ne Glenwood Sp ead And Parl	rings city lim k Mountai	its. Mud flov ns - Grand	vs also occur I And Batt	red in the lement	Mitchell Creek ar Mesas - Gore	ting in mud and debris flows onto ea 3 miles northwest of Glenwood S And Elk Mountains/Central western San Juan Mountains Winter Weather/Mix	springs. Mountain
Moso County	foot le Wilson	evel in western	Colorado. West of Tellur	idespread sr ide received	nowfall accurate 18 inches.	nulations	ranged from 3 to	season for many mountain areas about 10 inches with locally higher amount with snow were reported on Red Mo	ounts. The
Mesa County Fruitvale	10	1244MST 1254MST			0	0		Hail (0.88)	
Mesa County 5 N Mack	10	1300MST 1308MST			0	0	10K	Hail (1.00)	
Mesa County 5 N Fruita	10	1330MST 1430MST			0	0		Heavy Rain	
	Heavy	rainfall resulted	l in minor flo	oding.					
Mesa County 5 N Fruita	10	1338MST 1348MST			0	0	10K	Hail (1.00)	
Mesa County									
Clifton	10	1405MST 1415MST			0	0		Hail (0.75)	
Mesa County 4 ENE Fruita to 6 NNE Fruita	10	1500MST 1600MST			0	0		Heavy Rain	
COZ014	west b	oank of the East d into a home ne	Salt Creek a ar the interse	and water wa ction of 19 R	s up to the b	ottom of	_	East Salt Creek. Water inundated co Road, just west of 19 Road. One in	
COZ014	12	er Gunnison F 0400MST 0800MST	dver vane	y	0	0		Frost/Freeze	
	upper	_	r Valley. A		•			ted in widespread freezing tempera d minimum temperatures that rang	
COZ001>002-005- 007>008-021-023		-			-			ampa River Basin - Debequ River Basin - San Juan River Frost/Freeze	
COZ003-006>008-011- 017-020	Roan Cent	rative observer r And Tavapu	eports indica uts Plateau And Unco	ted minimum Is - Grand	temperature Valley -	s ranging Debeque	from the mid 20s To Silt Corr	ures across many of the valleys. Au to 32 degrees. idor - Central Colorado Rive au And Dallas Divide - Parado	er Basin -
	17	1053MST 1800MST			0	0	14K	Strong Wind	
	_				•		noved through the ge also occurred i	area. A 60 foot tall tree with a 4 for other areas.	oot diameter

		Time Local/	Path Length	Path Width		ber of				September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

CONNECTICUT, Northeast

Hartford County

Berlin to 28 0900EST 0 0 25K Flash Flood

Hartford 1800EST

Significant urban flooding affected central Hartford County, after nearly 4 inches of rain fell in a few hours. Several cars were stranded in Berlin and West Hartford, and Willow Brook rose out of its banks in New Britain, flooding a nearby park.

CONNECTICUT, Northwest

Litchfield County

Salisbury 23 0909EST 0 0 Thunderstorm Wind (G60)

Litchfield County

Washington 23 0931EST 0 0 Thunderstorm Wind (G60)

A strong cold front produced a line of showers and thunderstorms across northwestern Connecticut during the morning of September 23. One of the storms became severe as it moved across Litchfield County. Thunderstorm winds brought down numerous trees and power lines on Whitehollow Road in the town of Salisbury. About twenty minutes later, more powerlines were knocked down on Baldwin Hill Road in the town of Washington.

CONNECTICUT, Southern

NOT RECEIVED.

DELAWARE

New Castle County

North Portion 15 0543EST 0 1 16.1M Flash Flood 16 2234EST

Remnant moisture from Tropical Storm Henri produced copious amounts of rain during the early morning of the 15th across northern New Castle County and hit Mill Creek Hundred in the northwest part of the county the hardest. Thunderstorms with torrential downpours moved from south to north across the same areas and produced one to ten inches of rain across the region with the heaviest amounts around Hockessin. The worst flood damage occurred in the Glenville area of Mill Creek Hundred where 194 homes suffered flood damage. Numerous people were rescued from trapped vehicles. People were rescued from their flooded homes, including one person who was rescued from his roof. The Red Clay Creek at Wooddale had the highest recorded crest on record when it crested at 17.27 feet at 1230 p.m. EDT on the 15th. Flood stage is 5.5 feet. Farther downstream at Stanton, the creek rose above the gage house. The White Clay Creek at Delaware Park had its 4th highest crest of record when it crested at 16.78 feet at 345 p.m. EDT on the 15th. Flood stage is 13 feet. Other gage and rivers that flooded included the Christina River at Coochs Bridge (crest of 11.57 feet at 130 p.m. EDT on the 15th, Flood stage is 9 feet.) and the Brandywine Creek at Wilmington (crest of 12.73 feet at 845 p.m. EDT on the 15th, Flood stage is 11 feet.). Storm totals included 9.02 inches in Hockessin.

DEZ004	Dela	ware Beaches					
	18	0600EST	0	0		0	Heavy Surf/High Surf
	20	1800EST					
Sussex County							
Countywide	18	1100EST	0	0			Heavy Rain
		2300EST					
Kent County							
Countywide	18	1200EST	0	0			Heavy Rain
·	19	0000EST					·
DEZ001>004	New	Castle - Kent - Inland Sussex - Delawa	re Beach	ies			
	18	1300EST	0	0			Storm Surge
	19	1600EST					O
New Castle County							
Countywide	18	1300EST	0	0			Heavy Rain
·	19	0100EST					·
DEZ002>004	Kent	- Inland Sussex - Delaware Beaches					
	18	1500EST	0	0	17.8M		Tropical Storm
	19	0500EST					
DEZ001	New	Castle					
	18	1600EST	0	0	9.5M		High Wind (G50)
	19	0500EST	·	ŭ	,		

		Time Local/	Path Length	Path Width	Numb Perse		Estima Dama			September 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
DELAWARE										
New Castle County North Portion	18	2027EST			0	0			Flash Flood	
North Tortion	19	0628EST			v	v			riash rioou	
	landfa one tii Chesa Count The ti surge feet al mainly slower tide ca Route This w The C 612 a. foot fl gusts	Ill as a hurricane me in its life cyc peake Bay and y. Rivers and st de at Reedy Poi funneled up the pove mean lowery from the after d because of the aused beach eros 1 in several loc was one of the weak thristina River a m. EDT on the ood stage from included 70 mpi	near Drum le, it was a p was able to reams in Nev nt reached 8 bay and was r low water loon of the 1 incoming sto sion. Dunes v ations. Winc orst power of t Coochs Bri 19th. It cres 106 a.m. ED h at the Piloo	Inlet, North Cowerful Cates funnel water w Castle Cour. 66 feet above as lower and of at 324 p.m. Eath into the eath of the castle Cates were breached by gusted up to the cates of the cat	arolina aroungory 5 hurrica into the bay ty flooded firm and lower mean lower courred earlies DT on the 1 arly morning hile tides bare on the ocean of 70 mph and history for C stle County) eet at 115 a.m. EDT of ex County),	d 100 p. ne wher This c om two low water close t Sth. The of the 19 ly reache front so I caused Conectiv was abo n. EDT n the 19 62 mph	m. EDT on the action of the ac	ne 18th a of the Long along the heavy at the Long along the heavy at EDT of The higher the highest at Bethany best, tree flood sta The Red at 5.87 for seek Co	nd weakened as it tra eewood Islands. Isabe coastal areas all the y rain inland and also in the 19th. The surge est tide at Lewes (Su bincide with the tidal off from streams in No long the ocean, the wa and water overwashed limbs and power line ge from 927 p.m. ED Clay Creek at Wood eet at 430 a.m. EDT ounty), 61 mph at the	ng winds. Isabel mac cked farther inland. A d's track took it west of way into New Cast of from the storm surg was about 5 feet. The ssex County) was 6.5 flooding and occurre ew Castle County we ave action on top of the ed onto Delaware States to be knocked down OT on the 18th through dale was above its 5 on the 19th. Peak win Dover Air Force Bas
Kent County	Airpo	rt. Storm totals i	ncluded 1.88	3 inches in Gr	eenwood (Su	ssex Co	unty), 1.74 in	ches in C	•	the New Castle County, 1.46 inches at County).
Dover	23	0623EST			0	0			Thunderstorm V	Wind (G52)
	A pow	verful line of sev	ere thunders	torms uproote	d trees and da	maged a	fence in Dov	er.		
New Castle County North Portion	28 0000EST 0 0 Flash Flood 0200EST									
DISTRICT OF COL	and ca	used flooding of	•		ler Radar sto	rm total	estimate of 3	to 4 inc	hes across north cent	ral New Castle Coun
LORIDA, East Cent		RECEIVED.								
Volusia County Port Orange	14	0100EST			0	0	250K	0	Lightning	
	Light	ning struck a wa	rehouse in P	ort Orange. T	The resulting	ire caus	ed \$250 thous	sand in d	amage.	
Indian River County				C		4				
Wabasso	groun	d by the strike. s showers begar	Four other p	eople were tra	ansported to	ile stand			Lightning About 20 other peopirst lightning ground	
St. Lucie County 5 S Ft Pierce	25	1320EST			0	1	0	0	Lightning	
	A pov	wer plant worker	was injured	by lightning v	while in a wo	rking ba	sket on top of	a crane	on a utility truck.	
Lake County Eustis	25	1400EST			0	1	8K	0	Lightning	
		nale student was former flew throu							struck by lightning.	Pieces of the shatter
Seminole County Lake Mary	25	1515EST			1	2	0	0	Lightning	
		year old man wa n the gazebo wh					bo at the end	of a shor	t pier in a lake. Two t	een age boys who we

		Time Local/	Path Length	Path Width	Numb Pers		Estima Dama			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
FLORIDA, East Centr	<u>al</u>									
St. Lucie County Port St Lucie	25	1655EST			0	0	20K	0	Flash Flood	
		1900EST	.t., £.11 t., 41	D Ct I				-4-11:		
FLORIDA, Extreme So		six inches of ra	un fell in the	Port St. Lucie	area floodin	g major r	oadways and	stalling o	cars.	
		_								
		E REPORTED.								
FLORIDA, Northeaste	<u>rn</u>									
Nassau County 5 SSE Amelia City	13	1600EST			1	0			Rip Current	
c ssz rimem eng									-	
										as developing and the week. Nassau Count
	Beach	Patrol reported					or the day		asing surr ruler in the	Ween Hassau Count
FLZ024	M47IV									
FLZU24	Nassa 15	iu 1530EST			0	0			Heavy Surf/High	Surf
	18	1300EST								
	High S swimn		period swell	from Hurrica	ine Isabel. I	Breakers	of 7 to 10 f	eet report	ted with Nassau Co	unty beaches closed to
FLZ038	Flagle	-								
	15	1530EST			0	0			Heavy Surf/High	n Surf
	18 High S	1300EST Surf and long r	eriod swell f	rom Hurrican	e Isabel Ge	eneral bre	akers of 7 to	10 feet	reported with occasion	onal 12 to 15 foot sets
	Flagle	r Beach Pier w	as closed wi	th boards bro						the pier. The pier wa
FLZ033		ed to be "wobbl	ing" when it	was closed.						
FLZUSS	St. Jo	nns 1530EST			0	0			Heavy Surf/High	Surf
	18	1300EST								
		Surf and long pon reported.	eriod swell fr	om Hurricane	Isabel with	associated	l beach erosi	on. Brea	kers of 7 to 10 feet v	with 2 to 4 feet of beach
FLZ025	Duva	•								
	15	1530EST			0	0			Heavy Surf/High	n Surf
	18 High S	1300EST Surf and long po	eriod swell fr	om Hurricane	Isabel with	associated	l beach erosi	on. Brea	kers of 7 to 10 feet w	vith 2 to 4 feet of beac
		n reported.								
FLZ038	Flagle				0	0				1 (0) 1
	29 30	1100EST 2359EST			0	0			Astronomical Hi	gn 11de
										on. Effects were mos
FLORIDA, Northwest	pronou	unced in Flaglei	r County but	were felt fron	the Altamal	na Sound,	Georgia sou	th to Flag	gler Beach, Florida.	
<u>reorida, normwest</u>										
	NONE	E REPORTED.								
FLORIDA, Southern	IVOIVE	Z KLI OKTED.								
Broward County										
Ft Lauderdale	01	1300EST			1	0			Rip Current	
	A man	n drowned in a i	rip current at	Fort Lauderd	ale Beach.					
	M38IV	V	•							
Palm Beach County Boca Raton	01	1730EST			2	0			Rip Current	
Boca Raton									•	
		esidents drown when the rip cu				ion of be	ach. Both po	ersons we	ere weak swimmers	and were in 4.5 feet of
			rems puneu	ancin into dec	per water.					
		V, M31IW								
Broward County	M33IV				^	^	200=		***	
Broward County 22 E Ft Lauderdale		V, M31IW 1500EST			0	0	200K		Lightning	

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	September 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
FLORIDA, Southern								
Palm Beach County	0.4	1250ECE			0	0		E ICI I
Lake Worth	04	1350EST			0	0		Funnel Cloud
Miomi Dodo County	A SK	YWARN spotte	er sighted a fu	nnel cloud ju	st southwest	of Lake V	Worth.	
Miami - Dade County Homestead	04	1515EST			0	0		Funnel Cloud
	v cr.	YWARN spotte	ar cow a funn	al cloud near	IIC 1			
Miami - Dade County	ASK	1 WAKN spou	er saw a ruilli	er cloud flear	0.5. 1.			
Kendall	05	1200EST	1	20	0	0		Tornado (F0)
Dalm Daach County		f duty National ove toward the				-	the Palmetto Golf Cou	rse, saw a tornado form near the Metro Zo
Palm Beach County Boca Raton	05	1340EST			0	0		Funnel Cloud
March Dala Const	A SK	YWARN spotte	er saw a funno	el cloud near	I-95 and Yan	ato Roa	d.	
Miami - Dade County 11 SE Homestead Afb	12	1842EST			0	0		Funnel Cloud
	Emer	gency Manager	reported a fur	nnel cloud ox	er couthern R	iscavne i	Ray	
FLZ068		tal Palm Bea	-	inici cioda ov	er southern D	iscayiic	Day.	
	21 22	0800EST 2300EST			0	2		Hurricane/Typhoon
	Swells	s from hurricar						orida, capsized a watercraft at the Boynto
		Inlet injuring enced.	two men. A	14-year-old s	wimmer was	rescued	from high waves near	Juno Beach Pier. Minor beach erosion wa
Broward County	-							F 101 1
Hallandale	23	1140EST			0	0		Funnel Cloud
Broward County	Fire-R	Rescue reported	a funnel clou	d over Hallaı	ndale Beach E	oulevar	d.	
Hollywood	24	1245EST			0	1		Lightning
	An 81	-year-old man	was seriously	injured by a	lightning strik	e as he v	walked down the sidew	alk near Johnson Street
Miami - Dade County		•	·					
3 W (Mia)Miami Intl	24	1550EST			0	0		Thunderstorm Wind (G50)
Callian Country	CBS-4	4 measured a th	understorm v	ind gust of 5	8 mph at thei	r T.V stu	idio.	
Collier County West Portion	29	1000EST			0	0	100K	Flash Flood
		2300EST						
Glades County								
South Portion	29	1000EST 2300EST			0	0	20K	Flash Flood
								0 inches. Naples measured a record 6.99 ad in Glades County. Numerous cars were
FLORIDA, West Cent		. Houses and b	ousinesses incl	uding a shop	ping mall suf	ered mir	nor flooding damage.	
FLZ049	Pasco)						
	01 21	0000EST 1015EST			0	0		Flood
			orthington Ga	ardens went a	above flood s	tage on	August 2nd, crested at	10.27 fee on August 13th, and fell below
FLZ060	flood :	stage on Septer	nber 21st. Flo	ood stage is 8	feet.			
TLZ000	01	0000EST			0	0		Flood
	16 The M	2355EST Ivakka River a	t Myakka Sta	te Park went	above flood	stage on	August 5th, created a	t 10.02 feet on August 13th, and fell below
 10	flood	stage on Septer	•			50 011	ugust Sui, cicuca a	- 1000 on ringuot 10th, and fon belov
FLZ048	Hern 01	ando 0000EST			0	0		Flood
	13	1200EST					. 4 4 4	
		Vithlacooche R on September 1	•		_	n Augus	t 11th, created at 13.95	5 feet on August 24th, and fell below floo
		1		5				

		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage		September 200
ocation	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crop	s Character of Storm	
LORIDA, West Cent	ral								
Lee County									
2 S (Fmy)Ft Myers Page	05	1700EST			0	1		Lightning	
	A mai	n in rural Lee Cou	ınty was stı	uck by lightn	ing, taken to t	he hospi	tal, then released.		
Charlotte County									
Port Charlotte to Punta Gorda	05	1730EST 1900EST			0	0	90K	Flash Flood	
Tunta Gorta	Nume	der band ahead o erous streets were	flooded an	d water lappe	ed into homes	due to t	he wakes produced	ours in the Tee-N-Gree I by passing vehicles. T Kings Highway in Port	he hardest hit area v
Sarasota County									
Englewood to North Port	05	1730EST 1900EST			0	0	30K	Flash Flood	
North Fort	A tota		s of rain fe	ell during the	event with th	e hardes	t hit area along Pri	ce and Salford Boulev	ards in North Port. 7
							lter for displaced re		
Hernando County	06	ASSEST.			0	0		El-al El-al	
South Central Portion	06	0555EST 0700EST			0	0		Flash Flood	
	Emerg damag onsho	gency Manageme ge occurred due t ore near Mediera F	nt reported to the lack Beach in Pi	the water ret of homes in nellas County	reated as fast the area. The . This tropical	as it can thunder low was	ne, with the flood a storm developed of s formerly known a	lle Airport and caused in lasting only for 50-80 r in the north side of a tr is Tropical Storm Henri in September 5th at 120	ninutes. No signific opical low as it mov that produced winds
Lee County	10	1#30FCF							
Cape Coral	13	1730EST 1830EST			0	0		Flash Flood	
		rly stationary thu						and dropped four to si com Sarabarbra Blvd to	
Pasco County 1 W Hudson	25	1257EST			0	0		Hail (0.88)	
EORGIA, East Cent		E REPORTED.							
GEORGIA, Lower	NONI	E REPORTED.							
SEODCIA N. 41		E REPORTED.							
GEORGIA, North and Gilmer County	Cent	<u>rai</u>							
Ellijay	03	2235EST			0	0		Flash Flood	
3 ~7	04	0015EST	_						
		Filmer county 911 sthe road. A busi				orm rain	s resulted in flood	ing of one road in the	city with water flow
Monroe County	across	s the road. A busi	ness parkin	ig fot was also	mooded out.				
Juliette	04	1500EST			0	0	1K	Thunderstorm V	Wind (G50)
W C	A tele	evision station in N	Macon rece	ived a report t	rom the publi	c that fiv	e to six trees had be	een blown down.	
Warren County Warrenton	04	1540EST			0	0	1K	Thunderstorm V	Wind (G50)
	The W	Varren county Em	ergency M	anagement D	irector reporte	d that a s	shed was blown over	er at a gasoline service s	station.
Warren County Norwood	04	1545EST			0	0		Hail (0.75)	
	Than	Jamuaad Bast Off	ina ramant - 1	dima sizad t	a : 1				
Gilmer County	ine N	Norwood Post Offi	ce reported	unne-sizea h	aii.				
2 WSW Roosevelt to	22	1354EST			0	0		Heavy Rain	
Ellijay	mri -	1415EST			. ,	1.4		1 1, 1, 1	
		filmer county Em Highway 76/Geor			nector reporte	zu inat ez	ccessive raintall ha	d resulted in some min	or street 1100ding alo

		Time Local/	Path Length	Path Width	Num	ber of sons	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GEORGIA, North an	d Cent	tral							
Gilmer County									
2 WSW Roosevelt to 1 ESE Roosevelt	22	1354EST			0	0	5K		Thunderstorm Wind (G52)
	wides path this a	spread damage to was up to four n	trees along niles long and damage was	U.S. Highway d one mile wi between Cro	y 76/Georgia de. Numero ss Roads Ch	n Highwa ous trees o urch Roa	y 282 west overe snapped	of Ellijay l d off appro	ls or a microburst/downburst had resulted in between Elders and Roosevelt. The damage oximately 10 to 12 feet above the ground in Church Road. The worst of the damage was
Hall County				8					
Gainesville	22 The F	1511EST 1545EST Hall county 911	enter renorte	ed that at least	0 three possil	0 alv four t	2K	wn in the	Thunderstorm Wind (G50) city. One of the trees was down on a power
	line.	Tail County 711 (сист геропс	A that at least	unce, possi	ory rour t	ices were do	wii iii tiic	erty. One of the trees was down on a power
Cobb County	22	1.52.4EQTD				0			и в
Marietta	22	1534EST			0	0			Heavy Rain
Bartow County	The p	oublic reported th	at heavy rair	had resulted	in minor flo	oding of	some streets	and partic	ularly underpasses.
1 E Kingston to 6 N Taylorsville	27	1558EST 1600EST			0	0	0.50K		Thunderstorm Wind (G50)
		Bartow county 9 ne other on Mace						n, one on	Georgia Highway 293 just east of Kingston
White County Helen	27	1645EST			0	0			Hail (0.88)
	The r	oublic reported n	ickel-sized ha	ail.					
Cherokee County									
Free Home	27	1840EST			0	0			Hail (0.75)
a . a .	The p	oublic reported p	enny-sized ha	ail.					
Coweta County 3 E Thomas Xrds to 3 S Sharpsburg	27	1840EST			0	0	1K		Thunderstorm Wind (G50)
o o onarpooning	the F		order. An of	f-duty Nation					at Fisher Road and Wynn's Pond Road near a couple of large tree limbs were down on
Madison County 3 W Ila to	27	1845EST			0	0	25K		Thunderstorm Wind (G50)
1 S Ila	exten aroun also r	sive damage to t	rees in the armall structure	rea. Hundred	s of trees we	ere either	uprooted or	broken of	raight line thunderstorm wind gusts caused if, with extensive debris in the streets in and form of damage to roofs. Pea-sized hail was
GEORGIA, Northeas	<u>t</u>								
Habersham County East Portion	22	1530EST 1800EST			0	0	20K		Flash Flood
	Coun	ong storm syster ty. Ankle-deep	water entered	d several bus	inesses in th	ne Baldw	in and Corn	elia areas	ed in some flash flooding across Habersham. Some creeks overflowed their banks and developed as far north as Clarkesville.
Rabun County 4 S Clayton to	22	1545EST			0	0			Flash Flood
Clayton			Stecoah Cre	ek to rise rapi	dly to flood	south of (Clayton. And	other smal	l creek flooded in Clayton, and a small pond
Habersham County	overt	lowed.							
3 NE Cornelia	22	1555EST			0	0			Thunderstorm Wind (G50)
GEORGIA, Southeas		uple of trees were	e blown dowr	ı.					

NONE REPORTED.

		Time Local/	Path Length	Path Width		nber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GEORGIA, Southwest									_
GAZ142	Early								
	05	2100EST 2200EST			0	0			Flood
Desire Const	Two to	four inches of ra	in caused f	looding on H	ighways 27	and 39. R	Reported by	he Early (County EMA.
Berrien County Nashville	05	2215EST			0	0			Flash Flood
	06 Three	0000EST	rain flood	ad cavaral ro	ade includi	na Hiahwa	ove 120 and	168 in N	Jashville. Reported by the Berrien County
GULF OF MEXICO	Tillee	to five filenes of	Talli 1100de	ed severar 10	aus meruun	ng mgnwa	ays 129 and	100 111 1	rashvine. Reported by the Bernen County
Gulf Side Of The									
Lower Keys Out 20Nm Key West	01	2110EST			0	0			Marine Tstm Wind
	Wind g	gust 34 knots (39	mph) recor	ded at Key W	est Interna	tional Airp	ort.		
W End Of The 7 Mile		,	• /	•		•			
Bridge To Key W Out 20Nm									
Key West	01	2110EST			0	0			Marine Tstm Wind
	Wind g	gust 34 knots (39	mph) recor	ded at Key W	est Interna	tional Airp	ort.		
Key W To Dry Tortugas Waters									
7 SW Key West	01	2153EST			0	0			Marine Tstm Wind
	Wind g	gust 37 knots (43	mph) recor	ded at Sand I	Key CMAN	station.			
Ocean Reef To Craig									
Key Fl Out 20Nm 7 S Key Largo	01	2203EST			0	0			Marine Tstm Wind
	Wind o	gust 40 knots (46	mph) recor	ded at Molass	ses Reef CN	AN statio	on		
Englewood To Tarpon	,,,,,,,	,400 10 111010 (10	p.i.) 10001		,05 11001 011		,,,,		
Springs Fl Out 20Nm 8 NW St Petersburg Bea	03	1652EST			0	0			Waterspout
orivi sereceissurg see			1				1		Waterspout
Mobile Bay	Emerge	ency Managemen	it reported a	waterspout of	offshore of I	Madeira Bo	each.		
Pinto Island	04	1350CST			0	0			Marine Tstm Wind
Pensacola Fl To									
Pascagoula Ms Out 20Nm									
Dauphin Island	04	1350CST			0	0			Marine Tstm Wind
High Is To Freeport Tx									
Out 20Nm									
High Is	04	1610CST			0	0			Marine Tstm Wind
Makila Dan	Measu	red at High Island	d School.						
Mobile Bay Pinto Island	04	1620CST			0	0			Marine Tstm Wind
Atchafalaya R To									
Cameron La Out 20Nm									
12 S Cameron	04	1906CST			0	0			Marine Tstm Wind
	Offshor	re oil rig recorded	l 40 kt wind	l gust.					
Ocean Reef To Craig Key Fl Out 20Nm									
7 S Key Largo	06	0250EST			0	0			Marine Tstm Wind
	Wind g	gust 44 knots (51	mph) recor	ded at Molass	ses Reef CN	MAN statio	on.		
		`	- 1						

		Time	Path	Path	Numb		Estimated		September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	Injured	Damage Property Crops	Character of Storm	
GULF OF MEXICO W End Of The 7 Mile									
Bridge To Key W Out 20Nm									
8 S Key West	08	1335EST 1349EST			0	0		Waterspout	
Pascagoula Ms To Sw Pass Of Ms R Out	Water	spout observed	8 miles south	of Key West	Internationa	l Airport.			
20Nm 8 S Biloxi	09	1410CST			0	0		Waterspout	
Florida Bay								_	
13 ENE Duck Key	09	1627EST			0	0		Waterspout	
Florida Bay	Large	mature watersp	out observed	by spotters 2	miles west o	f Lignum	vitae Key.		
13 ENE Duck Key	09	1630EST 1700EST			0	0		Waterspout	
W End Of The 7 Mile	Four r	ope-like watersp	pouts observe	ed by spotters	5 miles west	of Islam	orada.		
W End Of The 7 Mile Bridge To Key W Out 20Nm									
4 WSW Big Pine Key	10	0728EST			0	0		Waterspout	
W End Of The 7 Mile	Water	spout observed	1 mile south	of Ramrod K	ey.				
Bridge To Key W Out 20Nm									
4 SE Key West	10	1324EST 1334EST			0	0		Waterspout	
Gulf Side Of The	Water	spout observed	4 miles south	east of Key V	Vest Internati	onal Airp	oort.		
Lower Keys Out 20Nm									
11 WNW Big Pine Key	10	1537EST			0	0		Waterspout	
Gulf Side Of The	Water	spout observed	by spotters ar	nd off-duty N	WS employe	es 3 miles	s north of Cudjoe Key.		
Lower Keys Out 20Nm									
3 N Key West	10	1616EST 1625EST			0	0		Waterspout	
Gulf Side Of The	Water	spout observed	just north of	Roosevelt Bo	ulevard with	spray rin	g visible.		
Lower Keys Out 20Nm									
14 WNW Big Pine Key	10	1637EST 1658EST			0	0		Waterspout	
		spout observed e birds observed				stage fir	st observed at 1637 L'	Γ with subsequent co	ollar cloud and funnel.
Cameron La To High Is Tx Out 20Nm									
12 S Mouth Of Sabine Ri	11	0905CST			0	0		Marine Tstm Wi	nd
Cameron La To High Is	Oil pla	tform recorded	35 kt wind g	ust.					
Tx 20 To 60Nm		0001 CCT			•				_
30 SSE Mouth Of Sabine		0921CST			0	0		Marine Tstm Wi	nd
Pt O'Connor To Aransas Pass	Offsho	ore oil rig record	led 35 kt wind	d gust.					
Port O'Connor	12	0200CST			0	0		Marine Tstm Wi	nd
	Repor	ted by TCOON	site.						

		Time Local/	Path Length	Path Width		aber of Estimated crons Damage			September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
GULF OF MEXICO										
Pt O'Connor To										
Aransas Pass 13 N Port Aransas	12	0200CCT			0	0			Marine Tstm Wind	
13 N Port Aransas	12	0309CST 0409CST			U	U			Marine 1stm Wind	
C Cl Tr.	Recor	ded by RKP (R	ockport) ASC	OS.						
Corpus Christi To Baffin Bay										
7 SW Port Aransas	12	0312CST			0	0	3M		Marine Tstm Wind	
	knots.	Winds caused	a 400-foot ba	rge to break	loose and dr	ift across t	the ship char	nnel. 31 w	south of Ingleside reported peak gust of 48 vorkers on the barge were blown off into the ag a shutdown of the Intracoastal Waterway.	
Corpus Christi To	ouy, i	lowever no mju	ics of fatalities	as were report	ica. 71 200 t	on crane i	en on the o	urge foren	ig a silutelown of the increconstal waterway.	
Baffin Bay										
Corpus Christi	12	0332CST			0	0			Marine Tstm Wind	
Matagorda Ship Chnl To Pt Aransas Out 20Nm	Repor	rted by NGP (N	avy Corpus C	'hristi).						
Port Aransas	12	0336CST			0	0			Marine Tstm Wind	
Pt Aransas To Baffin Bay Tx Out 20Nm	10	022 CCCT								
Port Aransas	12	0336CST			0	0			Marine Tstm Wind	
Pt Aransas To Baffin Bay Tx Out 20Nm	dama	ge occurred. (So			r description	of damag				
Bob Hall Pier	12	0411CST			0	0			Marine Tstm Wind	
Corpus Christi To Baffin Bay	Repor	rted by TCOON	site.							
South Bird Island	12	0412CST			0	0			Marine Tstm Wind	
	Repoi	rted by TCOON	site.							
Pt O'Connor To	•	•								
Aransas Pass	10	0412CCT			0	0			Marine Tstm Wind	
Port Aransas	12	0412CST			0	0			Marine 1stm Wind	
Matagorda Ship Chnl To Pt Aransas Out 20Nm Pltfm 17Se Prt Arnsas	12	0418CST			0	0			Marine Tstm Wind	
Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm Pltfm 17Se Prt Arnsas	12	0430CST			0	0			Marine Tstm Wind	
		0.00001			J	Ū				
Pt Aransas To Baffin Bay Tx 20 To 60Nm 30 E Corpus Christi	12	0430CST			0	0			Marine Tstm Wind	
Pt Aransas To Baffin Bay Tx Out 20Nm 8 SE Port Aransas	12	0448CST			0	0			Marine Tstm Wind	
	Repor	rted at RTNS Pl	atform.							
	•									

Location	Data	Time Local/	Path Length	Path Width	Per	ber of sons	Estim Dama	ige	September 2003 Character of Storm
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
GULF OF MEXICO Matagorda Ship Chnl To Pt Aransas Tx 20 To 60Nm Pltfm 17Se Prt Arnsas	12	0600CST			0	0			Marine Tstm Wind
Pt Aransas To Baffin Bay Tx 20 To 60Nm 45 E Baffin Bay	12	0600CST			0	0			Marine Tstm Wind
High Is To Freeport Tx Out 20Nm Freeport	12	0200CST			0	0			Marine Tstm Wind
	Measu	red at TCOONS	Freeport Fl	ow Info.					
Matagorda Bay Port O'Connor	12	0218CST	1		0	0			Marine Tstm Wind
Freeport To Matagorda Ship Chnl Out 20Nm		red at TCOONS	Port O'Con	nor.					
25 SW Matagorda	12	0224CST			0	0			Marine Tstm Wind
Eucapout To Motogoudo	Measu	red at TCOONS	Port O'Con	nor.					
Freeport To Matagorda Ship Chnl 20 To 60Nm Buoy 42019	12	0900CST			0	0			Marine Tstm Wind
	Measu	red at Buoy 420	19.						
Ocean Reef To Craig Key Fl Out 20Nm 20 SW Key Largo	12	0715EST 0735EST			0	0			Waterspout
G 10011 0.00	Mature		unnel with l	large turbulen	t spray ring	observed 8	8 miles soutl	neast of L	ower Matecumbe Key.
Gulf Side Of The Lower Keys Out 20Nm 10 W Big Pine Key	12	0724EST			0	0			Waterspout
	Waters	spout observed 2	miles north	of Upper Sug	arloaf Kev.				
Cameron La To High Is Tx 20 To 60Nm 28 SSW Mouth Of Sabin		0822CST			0	0			Marine Tstm Wind
	Offsho	re oil rig recorde	d 43 kt wind	d gust.					
Gulf Side Of The Lower Keys Out 20Nm									
5 NE Big Pine Key to Big Pine Key	12	1235EST			0	0			Waterspout
	Pilot o	bserved waterspo	out 30 nautio	cal miles east	northeast of	f Key Wes	t Internation	al Airport	:
Lake Ponchartrain And Lake Maurepas Mid Lke Pontchartrain	13	1315CST			0	0			Marine Tstm Wind
Lake Ponchartrain And Lake Maurepas Lkfrnt Arpt New	13	1317CST			0	0			Marine Tstm Wind
•		erstorm winds ca	neized a ru	mber of sailba	ate on Lake		train		
Pt Aransas To Baffin	inunu	Cistoriii willus Că	poizeu a nu	moei oi sanot	nuo on Lakt	o i omendi			
Bay Tx Out 20Nm Port Aransas	18	1600CST			0	0			Marine Tstm Wind

		Time Local/	Path Length	Path Width		nber of	Estim Dam		September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
GULF OF MEXICO Corpus Christi To Baffin Bay										
South Bird Island	18	1636CST			0	0			Marine Tstm Wind	
Pt Aransas To Baffin Bay Tx Out 20Nm	Repor	rted by TCOON	site.							
Bob Hall Pier	18	1700CST			0	0			Marine Tstm Wind	
Corpus Christi To Baffin Bay	Repor	rted by TCOON	site.							
Baffin Bay	18	1724CST			0	0			Marine Tstm Wind	
T (T) M()		rted by TCOON	site.							
Freeport To Matagorda Ship Chnl 20 To 60Nm Buoy 42019	21	1200CST			0	0			Marine Tstm Wind	
Cameron La To High Is Tx Out 20Nm	Measi	ured at Buoy 42	2019.							
12 S Mouth Of Sabine Ri	21	1206CST			0	0			Marine Tstm Wind	
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm 1 ESE Marathon	22	1147EST			0	0			Waterspout	
									oves adjacent to Marathon High School and cedure as the waterspout approached.	
Key W To Dry Tortugas Waters 7 SW Key West	25	1154EST			0	0			Marine Tstm Wind	
	Wind	gust 34 knots (3	39 mph) recor	ded at Sand I	Key CMAN	station.				
Florida Bay 7 NE Duck Key	26	0712EST			0	0			Marine Tstm Wind	
Pensacola Fl To Pascagoula Ms Out 20Nm	Wind	gust 37 knots (4	43 mph) recor	ded at Long	Key CMAN	station.				
Dauphin Island	27	1305CST			0	0			Marine Tstm Wind	
Englewood To Tarpon Springs Fl Out 20Nm 13 SSE St Petersburg Be	28	1542EST			0	0			Waterspout	
	The cl	hort lived water	enout was ren	orted by the N	Manatee Co	unty Emer	gency Mana	gement in	st offshore of Bean Point.	
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm	THE SI	nort irved water	spout was rep	orted by the I	vianatee Co	unity Effici	gency iviana	igement ju	st offshore of Bear Folia.	
7 S Marathon	28	2033EST			0	0			Marine Tstm Wind	
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm	Wind	gust 48 knots (5	55 mph) recor	ded at Sombi	ero Key Liş	ght CMAN	l station.			
7 S Marathon	28 29	2358EST 0008EST			0	0			Marine Tstm Wind	
		gust 45 knots (aph) at 0008 ES							on the 28th, followed by a gust to 42 knots	

		Time Local/	Path Length	Path Width	Numb Pers		Estin Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
HAWAII HIZ004-008	North 01 02	And East Ha	ıwaii Inclı	uding Wind	ward Koh 0	ala / Ha 0	makua / F	Iilo / Pur	na - South Hawaii Heavy Surf/High	
HIZ001>003-005>006	A swell Hawaii		reports of s	serious injurie			along the e	ast- and so	outheast-facing shore Heavy Surf/High	s of the Big Island of
Hawaii County	Lanai, a waters currents by city	and Maui. No off the south shaft forced many of	serious prop nore of Oahu of the event's fire departs	perty damage a during the V participants to ment, the Coa	or injuries w Vaikiki Rouş o seek assista ast Guard, a	ere report hwater S ance in ge	ted. Howev wim during etting out of	yer, more to the morn the water.	ast-facing shores of F han 350 swimmers h ing hours of the 1st Those who had to b	Kauai, Oahu, Molokai, ad to be rescued from of September. Strong e helped were rescued ment and Emergency
Hawaii County 17 NW Laupahoehoe to 10 SSW Naalehu	01	0315HST 1600HST			0	0			Heavy Rain	
HIZ001>002	Ka Lae areas or well. H	s of the Hamak (South Point).	ua, Hilo, Pu The heavy half of the i	na, and Kau o rain and show sle. The rain	listricts on the vers caused s and occasion	e Big Isla tream and nal easter	and of Hawa d drainage o	aii, from n litch flood	ear Hopokaa all the ving, and ponding of r	er coastal and upslope way southward to near oadways in populated ated power outages as Surf
Honolulu County		g low in the so were no reports				produce	d surf of 4	to 8 feet a	along the south shore	s of Kauai and Oahu.
Laie to Honolulu	10 11	2045HST 0845HST			0	0			Heavy Rain	
Honolulu County		showers caused ere no reports o				itch and s	tream flood	ing in east	ern and southern par	ts of Oahu. However,
Wahiawa	11	1210HST 1230HST			0	0			Funnel Cloud	
Maui County	A polic	e officer spotted	l a funnel cl	oud near the t	own of Wahi	awa on O	ahu. The fu	innel cloud	l dissipated within a s	hort time.
3 SSW Kahului	16 19	0445HST 1800HST			0	0			Wildfire	
Honolulu Correte	of the freet in of a few helicop	lames into near elevation in the ours during the	by mountain West Maui afternoon o a large Chin	nous terrain. The Mountains. The 16th and the 16th and the 16th th	The fire ende The blaze ford all day on the Hawaii Arm	d up black ced the evene 17th.	kening abou acuation of State and fe	ıt 1000 acı the Sanda deral firefi	res of parched grassla lwood and Grand Wa ghters, with the help	the wind carried some nd, to as high as 2000 ikapu golf courses for of four water-carrying veral days. However,
Honolulu County 1 SE Waialua	23 24	2000HST 1900HST			0	0			Wildfire	

A fire scorched about 1100 acres of old sugar cane and pineapple fields near Waialua on Oahu. Several homes near the blaze had to be evacuated as a precaution, as flames came within 20 feet of three residences in Poamoho Estates and within 100 yards of homes along Hukilau Loop. The fire downed some power lines, which caused sporadic outages in a few nearby neighborhoods and at Schofield Barracks. It also forced occasional closures of roads and highways around Waialua and Thomson Corner, slowing and snarling traffic at times. County and military firefighters fought the blaze, with the help of one county and two Army Blackhawk helicopters. The fire had started during the evening of the 23rd, near the University of Hawaii's Poamoho Experiment Station off Kaukonahua Road, although its cause was not known. There were no serious injuries or property damage.

Hawaii County 6 S Pahoa

30 1230HST 0 0 Wildfire 1912HST

A brush fire scorched about 200 acres in the Kalapana area of the Big Island of Hawaii. The fire threatened several homes in the Black Sands Beach subdivision, but firefighters were able to prevent the flames from doing damage to any structures. There were no

		Time	Path	Path	Numb		Estin			September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Dam Property	age Crops	Character of Storm	1
HAWAII										
HAWAII WATERS Channels Between The Islands	evacua	tions or serious in	njuries. The	e cause of the	blaze was ur	ıknown,	but fire offic	ials were l	ooking into the possib	vility of arson.
1 SW Kailua Kona	05	0725HST 0745HST			0	0			Waterspout	
	A wear		ne Big Island	d of Hawaii	sighted a wat	terspout	off the Kona	coast. No	serious property da	mage or injuries were
IDAHO, Extreme Sout	theast									
IDAHO, North	NONE	E REPORTED.								
IDAHO, Northwest	NONE	E REPORTED.								
IDAHO, Southeast Clark County	NONE	E REPORTED.								
9 N Kilgore	01 03	0100MST 1800MST			0	0			Wildfire	
Lincoln County	4400 a	cre fire burned ti	mber, down	ed fuels and	grass. No str	uctural d	amage repor	ted. Cost	to suppress estimated	at 600,000 dollars.
17 ESE Dietrich	13 15	0500MST 1700MST			0	0			Wildfire	
IDZ020		SID fire east of Di r Snake River		ned grass and	d sage. No st	ructural	damage.			
102020	16	1440MST 1700MST	1 Iaiii		0	0			High Wind (G42)	ı
Blaine County	Sustair	ned winds of 48 n	nph occurred	d over the IN	EEL site wes	t of Idah	o Falls.			
1 E Gannett	21 23	0800MST 0800MST			0	0			Wildfire	
Clark County	1000 a	cre Gannett fire l	ourned sage	and grass. N	No structural	damage.				
12 NW Dubois	28 29	0900MST 1700MST			0	0			Wildfire	
IDAHO, Southwest	400 ac	re East fork fire b	ourned grass	s, sage and co	ottonwoods. 1	No struct	ural damage	reported.		
ILLINOIS, Central	NONE	E REPORTED.								
Coles County Charleston	26	1317CST			0	0			Hail (0.75)	
Woodford County Minonk	26	1359CST			0	0			Hail (1.25)	
Schuyler County 5 S Huntsville	26	1452CST			0	0			Hail (0.88)	
Cass County 8 S Beardstown	26	1528CST			0	0			Thunderstorm W	Vind (G50)

Several trees were blown down onto US 67 south of Beardstown.

		Time	Path	Path	Numl		Estima		September 2003		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	sons Injured	Dama Property	ge Crops	Character of Storm		
				(" " " "		,	1. 7	- 1			
ILLINOIS, Central Logan County											
2 SE Broadwell to 2.6 SE Broadwell	26	1615CST 1617CST	0.8	50	0	0	15K	30K	Tornado (F1)		
	on a h	nado briefly toucl	ple in the h	ouse at the t	ime, saw the	tornado	approaching	and took	w down two trees, and blew out 5 windows shelter in the basement. No injuries were		
Logan County	терого	cu. Aiso, the wo	oden eenar	door on the n	ouse was torr	i ori ana i	icarby crops	were desir	oyeu.		
Mt Pulaski to 4 SE Mt Pulaski	26	1625CST 1630CST			0	0			Thunderstorm Wind (G60)		
	unocc	Thunderstorm winds blew down numerous trees in Mt. Pulaski, Chestnut and near Latham. One of the trees was blown down onto an unoccupied truck in Chestnut, damaging it. In Mt. Pulaski, several trees were blown over blocking several streets and a garage was damaged from a fallen tree. No injuries were reported.									
Coles County					•						
4 NNE Mattoon to 4 NE Mattoon	26	1750CST 1752CST	1.5	250	0	1	10M		Tornado (F1)		
	the pla and or suffer	ant. Almost 500 ver 5 million pot	,000 square ands of pape but didn't n	feet of the ro er were dama leed immedia	of was dama ged. With o te medical at	ged or de ver 400 e tention. A	stroyed. Cor employees in After hitting t	tents in the the plant a he plant, the	traveled east damaging several buildings at the buildings including electronic equipment at the time of the tornado, only one person the tornado damaged some outbuildings at a tillion.		
Clay County	24	101 F.CCF							TI 1 (C50)		
1 W Louisville to Flora	26 Sever	1915CST 1918CST al power lines we	ere blown de	NW/n	0	0			Thunderstorm Wind (G50)		
Jasper County	Bever	ar power mies we	ac blown do	7W11.							
Falmouth	26	1945CST			0	0			Thunderstorm Wind (G55)		
	Nume	rous large tree li	mbs were bl	own down or	nto Illinois Ro	oute 130.	No injuries v	were repor	rted.		
Richland County Olney	26	1947CST			0	0			Thunderstorm Wind (G60)		
	Nume	rous tree limbs a	nd several t	rees were blo	wn down aro	und town	. No injuries	were repo	orted.		
Crawford County							J	1			
Countywide	26	2009CST 2015CST			0	0			Thunderstorm Wind (G55)		
Lawrence County	Nume	rous trees and po	wer lines w	ere blown do	wn countywi	de. No in	ijuries were re	eported.			
Bridgeport to	26	2012CST			0	0			Thunderstorm Wind (G51)		
Lawrenceville		2015CST	1.		37						
ILLINOIS, Northeast	Nume	erous trees and po	wer lines w	ere blown do	wn. No injur	ies were i	reported.				
Grundy County											
Coal City	26	1330CST 1335CST			0	0			Hail (0.88)		
Livingston County											
Pontiac	26	1426CST 1434CST			0	0			Hail (1.00)		
***************************************	Quarte	er size hail cover	ed the grou	nd.							
ILLINOIS, Northwest											
Whiteside County Fulton	12	1738CST 1739CST	0.2	35	0	0	5K	10K	Tornado (F0)		
	Rated	high end F0									
									down on the south side of Fulton, Illinois,		
									east through the Sikkema Trailer Park and as noted during the survey with corn stalks		
	tossed		. Adjacent o	corn field was	heavily dam	aged. Nu	umerous publ	ic reports	of a funnel were received by the Whiteside		
Henry County	•		3	<u> </u>				J .			
Galva	26	1217CST			0	0			Hail (0.75)		
	Lasted	1219CST d 2 minutes									
Hancock County											
Nauvoo	26	1319CST 1322CST			0	0	70K		Hail (1.75)		
	Minor	street flooding f	rom heavy i	rain.							
		9	,								

		Time Local/	Path Length	Path Width	Numb Pers	ons	Estimated Damage	September 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
LLINOIS, Northwest								
Hancock County 5 N Ferris	26	1328CST			0	0		Funnel Cloud
		1333CST			v	Ü		Tumor Civill
Mcdonough County								
2 NW Macomb	26	1400CST 1402CST			0	0		Hail (0.88)
II I INOIS South	during	the afternoon. Toomb, Illinois ob	The storms p	roduced spott	y hail with a	few funn	el clouds. A meteorolo	Southeast Iowa, and West Central Illino ogy professor at Western Illinois Universit 1412 CST. Fortunately, no tornadogenesi
LLINOIS, South ILZ078-083	Waha	ash - White						
	10 13	2100CST 2000CST			0	0		Flood
Perry County	feet or around pumpi	n September 12. I Mount Carmel ng units on subs	The crest a were mainly tructures. Ac	t New Harmo to low-lying ccess to those	ony, Indiana farmland an was by boat	was only d oil field only. The	y a couple of inches all s near the river. Oil fie	nd stage is 19 feet, the river crested at 19, bove the 15-foot flood stage. The impacted production ceased with the exception of linstalled flood gate C. At New Harmon
Pinckneyville	26	2030CST			0	0		Heavy Rain
	Flood	2120CST ing of a few stree	ets was repoi	ted, including	Main Street			
LLINOIS, Southwest		8		,	,			
St. Clair County Cahokia	26	0515CST			0	0		Lightning
Canokia								
	high p	ressure lines cor	verge. Flam	es were repor	ted shooting	100 feet		e lighting hit a manifold where two 10 in alves on the lines were closed, but since on the burned off.
Adams County Lima	26	1425CST			0	0		Hail (1.75)
Adams County								
Loraine	26	1425CST			0	0		Hail (1.75)
	Storm	spotters reported	l golfball siz	e hail in Lorai	ine and Lima			
Adams County 3 N Golden	26	1445CST			0	0		Hail (1.50)
	20	1443651			v	v		11dii (1.50)
Adams County Camp Pt	26	1450CST			0	0		Hail (2.00)
camp 1 v			1111 4- 0				d 1 1/2 i l- lil	, ,
Adams County	Storm	spotters reported	i naii up to 2	inches in dia	meter in Can	ip Point a	and 1 1/2 inch hail near	Golden.
Quincy	26	1448CST			0	0		Thunderstorm Wind (G55)
	A loca	al television stati	on reported	several trees a	nd power lin	es down	in the southeast part of	Quincy.
Brown County Mt Sterling	26	1510CST			0	0		Thunderstorm Wind (G55)
M. P. G.		trees and large , Northwest Cro				orm wind	ls in parts of Mt. Ster	ling. The areas hardest hit included Nor
Madison County Glen Carbon	26	1748CST			0	0		Thunderstorm Wind (G60)
Madison County Granite City	26	1750CST			0	0		Thunderstorm Wind (G60)
	Th. C	ounts, 61 '66 '	E	d tuos 1			Clan Cost 1 C	ite City. One home in Glen Carbon w

The County Sheriff office reported trees and power lines down in Glen Carbon and Granite City. One home in Glen Carbon was damaged by a fallen tree.

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage		September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
ILLINOIS, Southwest Madison County 3 S Marine	26	1810CST			0	0			Thunderstorm Wind (G60)	
	Jacob		Bartlett Pe	ar trees were	downed by	the storm	n. Another h	ome lost i	ral Madison County between Marine and St. roof shingles and had an 8 by 10 foot shed a downed tree.	
St. Clair County Belleville	26	1815CST			0	0			Thunderstorm Wind (G55)	
Madison County	Amat	eur radio spotters	reported tre	es and power	lines down i	n the wes	tern part of l	Belleville.		
Highland	26	1815CST			0	0			Thunderstorm Wind (G60)	
Marion County	Several power poles were broken by thunderstorm winds along Route 143 in Highland. The sign at a Dairy Queen on Festroyed. Some trees and power lines were also downed in other parts of town as well.									
Salem	26	1850CST			0	0			Thunderstorm Wind (G55)	
Marion County 3 S Sandoval	26	1850CST			0	0			Thunderstorm Wind (G55)	
		EMA officials red some streets.	eported tree	es down bloch	king Highwa	ıy 51 sou	th of Sando	val. Scatte	ered trees were also down in Salem which	
Marion County 2 W Kinmundy	26	1853CST			0	0			Hail (1.00)	
Dandalah County	The S	alem EMA office	reported 1	inch hail just	west of Kinn	nundy.				
Randolph County Sparta	26	1930CST			0	0			Hail (0.75)	
Randolph County Tilden	26	1930CST			0	0			Hail (0.75)	
INDIANA, Central	Storm	spotters reported	3/4 inch ha	il in Sparta ar	nd Tilden.					
INZ045	Putn: 01 03	am 0542EST 0400EST			0	0			Flood	
T 111 G		inches of rain fe ville crested at 16.						weekend o	causing flooding along Big Walnut Creek.	
Hendricks County Countywide	01	0555EST 0900EST			0	0	2.5M		Flash Flood	
Madison County Countywide	01	0620EST 0900EST			0	0	2.5M		Flash Flood	
Putnam County Countywide	01	0625EST 0900EST			0	0	1M		Flash Flood	
Hamilton County Countywide	01	0630EST 0900EST			0	0	5M		Flash Flood	
Marion County Countywide	01	0635EST 0900EST			0	0	5M		Flash Flood	

		Time Local/	Path Length	Path Width		nber of	Estimated Damage		September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
INDIANA, Central INZ029>030-035>037- 039>041-043>049- 051>057-060>061- 063>065-067>072	Putna	am - Hendrio	ks - Mario	on - Hancoc	k - Henr	y - Vigo	- Clay - O	wen - N		ermillion - Parke - - Shelby - Rush - ekson - Jennings
Randolph County Countywide	01	1030EST 1500EST			0	0	1M		Flash Flood	
Henry County Countywide	01	1130EST 1500EST			0	0			Flash Flood	
Hendricks County Countywide	01	1230EST 1500EST			0	0			Flash Flood	
Marion County Countywide	01	1245EST 1500EST			0	0			Flash Flood	
Hamilton County Countywide	01	1300EST 1500EST			0	0			Flash Flood	
Madison County Countywide	01	1300EST 1500EST			0	0			Flash Flood	
Hancock County Countywide	01	1330EST 1500EST			0	0			Flash Flood	
Rush County Countywide	01	1430EST 1700EST			0	0			Flash Flood	
Shelby County Countywide	01	1430EST 1700EST			0	0			Flash Flood	
	Septer Delaw flash f were	Record rainfall event occurred across central Indiana starting in the evening of August 31 and continuing through the morning September 2. The heaviest rain occurred along an axis from Vigo to Clay to Putnam to Hendricks to Marion to Hamilton to Madiso Delaware and Randolph counties. Many spots near the axis received 8 to 10 inches over the 30 hour period. This resulted in widespreflash flooding and flooding along small creeks. There were numerous evacuations from homes and rescues from vehicles. Many school were closed. Many neighborhoods that never saw flooding before were flooded. There were also hundreds of flooded basements. That ional Guard was activated to help with road closings and rescues at the request of the city of Indianapolis. The flooding continued								
INZ036>037-044>045	_	tgomery - Boo 0739EST 1642EST			0	0			Flood	
	Fincas Septer	stle crested at 16 mber 2.								g Big Racoon Creek. d stage is 14 feet) on
INZ037-047	Boon 01 02	e - Marion 0750EST 1400EST			0	0	2M		Flood	
	8 to 1	0 inches of rai	n fell over t	the Labor Da	y weekend	causing r	najor floodir	ng along	Eagle Creek and Lit	tle Eagle Creek near

8 to 10 inches of rain fell over the Labor Day weekend causing major flooding along Eagle Creek and Little Eagle Creek near Speedway. Eagle Creek crested at Speedway at 16.57 feet . Flood stage is 9 feet. Eagle Creek at Zionsville crested at 12.34 feet. Flood stage is 9 feet. The Speedway area had it's worst flooding since June 1957.

		Time Local/	Path Length	Path Width		ber of	Estim Dam	ated		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

INDIANA, Central INZ021-028>029-035-

043>044-051-060

Carroll - Warren - Tippecanoe - Fountain - Vermillion - Parke - Vigo - Sullivan

01 1042EST 0 0 Flood 12 0117EST

Around 3 to 6 inches of rain fell over the Labor Day weekend. This caused minor flooding along the Wabash River. A few county roads, parks and river cabins were affected as a result of the flooding. There was also quite a bit of agricultural bottomland flooding, although most of the crops were already lost to the July flooding.

Location:	Flood Stage:	Crest:	Date of Crest:
Lafayette	11.0	16.47	09/03/03
Covington	16.0	20.33	09/04/03
Montezuma	14.0	22.30	09/03/03
Terre Haute	14.0	19.37	09/04/03
Hutsonville	16.0	20.90	09/06/03
Riverton	15.0	18.92	09/08/03
Hamilton - Mario	n		

INZ039-047

Record flooding occurred along Fall Creek at Millersville. The creek crested at 15.7 feet. The flood stage is 9.0 feet. The flooding was the result of 8 to 10 inches of rain that fell over the Labor Day weekend. An elderly woman lost her life when her car was swept into the creek. F78IW

Henry County New Castle

01 1310EST 0 1 200K Thunderstorm Wind (G60) 1311EST

Straight-line winds caused considerable damage to several houses and vehicles. A man also received an eye injury but was in fair condition.

INZ039>041-047-053>055-061>062-067>068 Hamilton - Madison - Delaware - Marion - Owen - Morgan - Johnson - Greene - Monroe - Knox - Daviess

01 1326EST 0 0 22M Flood 11 0651EST

8 to 10 inches of rain fell across central Indiana during the Labor Day weekend causing major flooding along parts of the White River. In fact, Indianapolis received the most rain ever for a calendar day (7.2 inches) breaking the old record set in 1895 (6.8 inches). According to a local newspaper account, nearly 3,000 residents across central Indiana applied for flood assistance and flood damage was estimated in excess of 20 million dollars. SEMA reports indicated more than 300 homes and nearly 60 businesses were flooded. Nearly 200 people were forced to evacuate their residences. The cities of Muncie and Anderson had near major flooding as the river crested at its highest level since April 1964 and June 1958 respectively. While the city proper of Muncie was protected by levees, considerable flood damage occurred in areas just outside of the city proper. Sandbagging in the city of Anderson saved more than 100 homes from flood damage. The local flood protection would have been overtopped without the sandbagging. There was extensive flooding across Hamilton County, however levels were nearly 2 feet below those of July 2003.

The White River in the southern portion of Marion County came up 15 feet in just 18 hours after the rain ended. The greatest flood since January 1, 1991 on the White River in Indianapolis met the record flood on White Lick Creek near Centerton and produced the largest flood ever seen in Morgan County since March 1913. This flood raced downstream and struck Owen County on the 3rd. Consequently, Owen County had its worst flooding since January 1991. As this flood approached Greene County, the flood transformed to an extensive agricultural flood and its speed slowed. A near major flood along the Eel River in the Bowling Green area met this large flood along the White River at Worthington. The resulting flooding in Greene County exceeded the July 2003 flood by 2.5 feet. This was the biggest flood in Greene County since May 2002.

Location:	Flood Stage	: :	Crest:	Date of Crest:
Muncie	9.0		14.02	09/02/03
Anderson	10.0		19.52	09/03/03
Noblesville 14.0		19.99	09/04/03	
Nora	11.0		15.35	09/04/03
Ravenswood	6.0		9.5	09/04/03
Indianapolis	16.0		19.65	09/01/03
Centerton	12.0		19.87	09/02/03
Spencer	14.0		23.30	09/04/03
Worthington	18.0		26.64	09/05/03
Elliston	18.0		28.10	09/06/03
Newberry	13.0		22.93	09/06/03
Edwardsport	15.0		23.30	09/07/03

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage		September 2003			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm			
INDIANA, Central												
INZ054	Morg	-										
	01 02	1332EST 2106EST			0	0			Flood			
			1 - 1 33	This I is a	l M			124-65	alor of aria that fall area the Labor Day			
		and. The gage c	_				iccompanied	3 10 6 11	nches of rain that fell over the Labor Day			
Shelby County	01	1.420ECT			0	0			Th			
Shelbyville	01	1430EST			0	0			Thunderstorm Wind (G50)			
INZ041	Law e	enforcement rep	orted trees do	wn.								
11(2041	01	1512EST			0	0			Flood			
	03	0706EST			v	v			11000			
	6 to 8 inches of rain fell over the Labor Day Weekend causing flooding along the Mississinewa River. Ridgeville crested at											
TN/7040 084 088		stage is 11 feet		er 1.								
INZ049-056>057		y - Shelby - F	Kush		0	0			Flood			
	01 04	1534EST 0834EST			U	0			riood			
	6 to 8	inches of rain	fell across pa	arts of centra	l Indiana du	ring the I	abor Day	weekend o	causing flooding along the Big Blue River.			
	Cartha	age crested at 1				-	•		ed at 13.78 feet (flood stage is 11 feet) on			
INZ021-029-031	-	nber 3.	о Ноже	nd								
11(2021-02)-031	01	oll - Tippecaı 1603EST	110C - 110Wa	ıu	0	0			Flood			
	04	1732EST										
	3 to 4	inches of rain f	fell over the I	abor Day w	eekend caus	sing minor	flooding al	ong Wildo	eat Creek. Kokomo crested at 12 feet (flood			
INZ045-052	_	is 10 feet), while	e Lafayette cr	ested at 13.2	feet (flood s	tage is 10	feet).					
INZ045-052	Putna 01	am - Clay 1735EST			0	0			Flood			
	04	1235EST										
	6 to 8	inches of rain t	fell across par	ts of central	Indiana dur	ing the La	bor Day we	ekend cau	sing flooding along the Eel River. Bowling			
INIZO45, 047, 052		crested at 20.77		tage is 17 fee	et) on Septer	nber 2.						
INZ045>046-053	Puin 01	am - Hendric 2050EST	ks - Owen		0	0			Flood			
	04	1343EST			v	Ü			11002			
	6 to 8	inches of rain f	ell over the L	abor Day we	eekend caus	ing floodir	ng along Mil	ll Creek. C	Cataract crested at 17.62 feet. Flood stage is			
******	15 fee								_			
INZ067	Knox				0	0			Flood			
	06 11	1729EST 0108EST			U	U			Flood			
	3 to 6	inches of rain t	fell over the u	ipper Wabas	h River duri	ng the Lal	bor Dav wee	kend. Thi	s caused minor flooding to occur along the			
	lower	Wabash River b		* *		_	•		ĕ			
INZ067	Knox				0	0			El J			
	07 13	0900EST 0600EST			U	0			Flood			
	Floodi	ing occurred al	ong the lowe	r portion of	the White	River due	to the heav	v rain th	at fell further north during the Labor Day			
									eton crested at 20.70 feet (flood stage is 16			
Dolowana County	feet) o	on the 11th.										
Delaware County Eaton to	15	1056EST			0	0			Hail (1.75)			
4 S Muncie		1111EST										
	Dime	to golfball size	hail was repo	rted by law e	nforcement a	and the ger	neral public.					
Fountain County	24	0 #2 0 F (#			•	•						
Countywide	24	0730EST 0930EST			0	0			Flash Flood			
Tinnessnes Country												
Tippecanoe County Countywide	24	0730EST			0	0			Flash Flood			
-		0930EST										

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of rsons Injured	Estimated Damage Property Crops	September 2003 Character of Storm		
INDIANA, Central						-				
Warren County Countywide	24	0830EST 0930EST			0	0		Flash Flood		
		were numerou	s reports of f	looded road	ways as 3 t	o 4 inches	of rain fell on alrea	ady saturated grounds from the Labor Day		
Tippecanoe County Romney	26	1900EST 1910EST			0	0		Hail (1.00)		
Montgomery County 10 SW Crawfordsville	26	1915EST			0	0		Thunderstorm Wind (G50)		
Tippecanoe County Romney	26	1915EST			0	0		Thunderstorm Wind (G50)		
Boone County Elizaville	26	2009EST 2010EST			0	0		Hail (0.88)		
Hamilton County Sheridan	26	2010EST 2011EST			0	0		Hail (0.88)		
Hamilton County 2.2 WSW Arcadia to Arcadia	26	2027EST 2030EST	2.2	100	0	0	300K	Tornado (F1)		
	An F1 tornado cut a 2 and a quarter mile path across northern Hamilton near Arcadia damaging 1 home and destroying several barns. The tornado also knocked down numerous trees there.									
Hamilton County 1 S Arcadia	26	2030EST 2031EST			0	0	50K	Thunderstorm Wind (G62)		
Madison County 2 N Frankton to 3 W Anderson	26	2115EST			0	0	20K	Thunderstorm Wind (G56)		
Randolph County Parker City	26	2129EST 2130EST			0	0		Thunderstorm Wind (G50)		
Randolph County Ridgeville to New Pittsburg	26	2145EST 2155EST			0	0	10K	Thunderstorm Wind (G56)		
	across near A where Heigh approx	central Indiana Arcadia damagii the tornado tou ts High School.	a. The worst d ng 1 home an iched down, th A high school ne. Finally, a	amage occur d destroying nunderstorm of football ga roof received	rred across n several bar winds estim me there had	orthern Hans. The torated at 72 to be pos	milton county as an I mado also knocked d mph by law enforcem tponed until the next of	several reports of trees down and large hail F1 tornado cut a 2 and a quarter mile path to own numerous trees there. 4 miles south of ent knocked down a scoreboard at Hamilton day as students and fans took cover from the ue to straight line winds near Anderson, and		
Tippecanoe County Lafayette	26	1930EST 2130EST		, and the second	0	0		Flash Flood		
INZ021-028>029-035- 043>044-051-060	Street flooding and flooding of underpasses was reported as a squall line moved through dumping heavy rain. Carroll - Warren - Tippecanoe - Fountain - Vermillion - Parke - Vigo - Sullivan									
	27 30	0141EST 2359EST			0	0		Flood		
	Only 1 to 2 inches of rain fell on September 26, 2003. Even with such a small amount of rainfall, previously saturated ground gave way to minor flooding along the Wabash River. The flooding began on September 27, 2003 and continued into October.									
	Locati Lafay Covin	ette	Flood Stage 11.0 16.0	1	6.47 09	ate of Cres 0/28/03 0/29/03	t:			

		Time	Path	Path	Number of		Estimated		September 2003		
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	K	Per Lilled	rsons Injured	Damaş Property	ge Crops	Character of Storm	Septemoer 2003
INDIANA, Central											
	Montezuma		14.0		18.79	09	/30/03				
	Terre		14.0		16.47	10/01/03					
	Hutson Rivert		16.0 15.0		18.40 10/02/03 16.90 10/03/03						
INDIANA, Northeast	Kiveit	OII	15.0		10.50	10	703/03				
Wells County											
1 W Keystone	15	1120EST				0	0	0		Hail (0.75)	
INDIANA, Northwest											
Indiana, northwest											
	NON	E REPORTEI).								
INDIANA, South Cent	<u>tral</u>										
Orange County											
Countywide	01	1838EST 2015EST				0	0			Flash Flood	
	Sever		oli and French	Lick were	covered	bv wa	iter. Water	was flowing	auickly o	off hillsides and cover	ing parts of Highways
		nd 56.							4		
Jefferson County											
Countywide	02	1545EST				0	0			Flash Flood	
	Creek	2145EST s were flowing	g out of their b	anks in th	e eastern	part o	of the coun	ity near Madi	son. Som	ne roads in Madison v	vere down to one lane
	Creeks were flowing out of their banks in the eastern part of the county near Madison. Some roads in Madison were down to one open due to flowing water. In the western part of the county near Deputy, numerous road were covered with flowing water and dit										
aa	were o	overflowing. E	lsewhere in the	e county, n	umerous	roads	were cove	red or closed	due to hi	gh water.	
Scott County	02	100 AECT				0	0				
Lexington	02	1804EST 2130EST				0	0			Flash Flood	
	State		h of Lexington	, and section	ons of fo	ur othe	er roads in	the Lexingto	ı area, w	ere impassable due to	high water.
INZ079	Jeffer	rson								·	
	02	2020EST				0	0			Flood	
	03 The N	0910EST	iver at Deputy	creeted at	22.8 fe	et at 3	AM EST	on Septembe	r 3 Floo	nd stage at Demuty is	20 feet. At this level,
		y roads are und						on septemot	1 J. 1100	d stage at Deputy is	20 feet. At this level,
Harrison County		,					•				
Laconia	27	0129EST				0	0			Thunderstorm W	ind (G50)
	Тиоло	were downed.									
INDIANA, Southeast	rrees	were downed.									
Wayne County											
1 W Richmond	01	1400EST				0	0	5K		Thunderstorm W	ind (G50)
		1404EST									` '
TN/7050		rous trees wer	e downed, incl	uding one	on a hon	ne, cau	ising mino	r damage.			
INZ050	Wayı 01	ne 1502EST				0	0			Flood	
	UI	1700EST				U	U			rioou	
	A larg		vy rain moved	across the	Whitev	vater V	/alley duri	ng the aftern	oon hour	s. Two to three inch	es fell during the mid
**************************************	aftern	oon hours, cau	sing several ro	ads to floo	d and cr	eeks to	rise out o	f their banks.			
INDIANA, Southwest	C"	D''									
INZ081>082		on - Pike				•	0			T21 J	
	07 13	0900CST 1800CST				0	0			Flood	
	Minor	to moderate fi	ooding of the	White Di	ar occur	ad for	cavaral da	ve At Datamal	ura who	ra flood store is 16 fe	eat the river exected of
											et, the river crested at stage there is also 16
											flooded near where it
	crosse	s the river eas	-		_						al county roads were
INIZA01 005	closed										
INZ081-085		on - Posey				0	Λ			Flood	
	10 13	2100CST 2000CST				0	0			Flood	
	-										

Minor flooding of the Wabash River occurred for a few days. At Mount Carmel, Illinois, where flood stage is 19 feet, the river crested at 19.9 feet on September 12. The crest at New Harmony was only a couple of inches above the 15-foot flood stage. The impacts around Mount Carmel were mainly to low-lying farmland and oil fields near the river. Oil field production ceased with the exception of pumping units on substructures. Access to those was by boat only. At New Harmony, there was little impact, but some low cropland was flooded on the Illinois side of the river.

		Time Path Path Number of Estimated Local/ Length Width Persons Damage		age September 2003					
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
IOWA, Central									
Union County									
2 S Creston to 1 NNE Creston	11	1352CST 1357CST	3.5	50	0	0	250K	25K	Tornado (F0)
T WILL CICSION		do cut a contino							
									utherly winds ahead of the front with ead of the cold front on what was the
									nado. The tornado touched down al
	mile so	outh of town and	d moved nor	th-northeast th	rough the to	wn of Cre	ston. Sever	al building	s were damaged. One of the building
		tire end of the st indow damage.	tructure. A f	few farmsteads	were affect	ted as we	ll. As the st	orm moved	d through Creston, several houses ha
Hamilton County	and wi	muow damage.							
3 S Ellsworth	26	1500CST			0	0			Hail (0.75)
Hamilton County									
Randall	26	1500CST			0	0			Hail (0.75)
									(******)
Story County 2 NE Roland	26	1515CCT			0	0	217		11-21 (0.99)
2 NE Roland	26	1515CST			0	0	2K		Hail (0.88)
									A secondary cold front dropped into c
									st of the area following the first from a combination with a strong upper le
									evelop. A small cluster of thunders
									nail reportedly covered the ground e
OWA, East Central		orth. As the cell	progressed s	south, hall the s	size of nicke	els covered	the ground	nortneast o	of Roland.
Lee County	unu po	atricust							
Montrose	26	1308CST			0	0	50K		Hail (1.25)
	20				U	-			11411 (1.23)
	20	1310CST			U	-			Hull (1.23)
	An up	1310CST oper level disturb			ms to devel	lop across	Northeast		Southeast Iowa, and West Central I
	An up during	pper level distur	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
	An up during	pper level disturts, the afternoon. Comb, Illinois of	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northeast	An up during in Mad	pper level disturts, the afternoon. Comb, Illinois of	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northeast	An up during in Mad	pper level disturts, the afternoon. Comb, Illinois of	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northeast	An up during in Mac occurr	pper level disturi the afternoon. comb, Illinois of ed.	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
	An up during in Mac occurr	pper level disturts, the afternoon. Comb, Illinois of	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
	An up during in Mac occurr	pper level disturi the afternoon. comb, Illinois of ed.	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
	An up during in Mac occurr	1310CST oper level disturt the afternoon. comb, Illinois of ed. E REPORTED.	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northwest	An up during in Mac occurr	pper level disturi the afternoon. comb, Illinois of ed.	The storms p	roduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northwest	An up during in Mac occurr	1310CST oper level disturt the afternoon. comb, Illinois of ed. E REPORTED.	The storms p	oroduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
OWA, Northwest	An up during in Mac occurr NON!	pper level disture the afternoon. Comb, Illinois of the REPORTED.	The storms p	oroduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
IOWA, Northwest	An up during in Mac occurr NON!	1310CST oper level disturt the afternoon. comb, Illinois of ed. E REPORTED.	The storms p	oroduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County	An up during in Mac occurr NON!	pper level disture the afternoon. Comb, Illinois of the REPORTED.	The storms p	oroduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
IOWA, Northwest IOWA, Southwest KANSAS, East	An up during in Mac occurr NON!	pper level disture the afternoon. Comb, Illinois of the REPORTED.	The storms p	oroduced spotty	ms to devel	lop across	Northeast I	meteorolo	Southeast Iowa, and West Central I
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden	An up during in Mac occurr NON!	pper level disture the afternoon. Comb, Illinois of the REPORTED. E REPORTED. E REPORTED.	The storms p	oroduced spotty	ms to devel y hail with a ud move acr	lop across few funn ross the ci	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County	An up during in Mac occurr NON!	pper level disture the afternoon. Comb, Illinois of the REPORTED. E REPORTED. E REPORTED.	The storms p	oroduced spotty	ms to devel y hail with a ud move acr	lop across few funn ross the ci	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown	An up during in Mac occurr NON! NON! 10	pper level disture the afternoon. comb, Illinois of red. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST	The storms p	oroduced spotty	ms to devel y hail with a ud move acr	lop across few funn ross the ci	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52)
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County	An up during in Mac occurr NON! NON! 10 Repu	pper level disturt the afternoon. comb, Illinois of ed. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST	The storms p	oroduced spotty	ms to devel y hail with a ud move acr	op across few funn fe	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56)
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown	An up during in Mac occurr NON! NON! 10 10 Repu 10	pper level disturing the afternoon. Soomb, Illinois of ed. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST	The storms poserved a rot	oroduced spott	oms to devel y hail with a und move acri	op across the ci	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52)
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown KSZ008	An up during in Mac occurr NON! NON! 10 10 Repu 10	pper level disturt the afternoon. comb, Illinois of ed. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST	The storms poserved a rot	oroduced spott	oms to devel y hail with a und move acri	op across the ci	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56)
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown KSZ008	An up during in Mac occurr NON! NON! 10 10 Reput 10 Water	pper level disturt the afternoon. Comb, Illinois of ed. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST was reported by	The storms poserved a rot	oroduced spott	ons to develop hail with a sud move acress of the control of the court	o o o o o o o o o o o o o	Northeast I	meteorolo	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56) Flood
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown KSZ008	An up during in Mac occurr NON! NON! 10 10 Repu 10 Water	pper level disturt the afternoon. Scomb, Illinois of red. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST was reported by 2126CST 2346CST	The storms poserved a rot	e roadway sou	ons to develop hail with a land move acress of the control of the	o o o o o o o o o o o o o	s Northeast lel clouds. A ty from 140	meteorolo 7 CST to 1	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56) Flood Flash Flood
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown KSZ008 Cloud County 5 W Concordia	An up during in Mac occurr NON! NON! 10 10 Repu 10 Water	pper level disturt the afternoon. Comb, Illinois of ed. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST was reported by 2126CST	The storms poserved a rot	e roadway sou	ons to develop hail with a land move acress of the control of the	o o o o o o o o o o o o o	s Northeast lel clouds. A ty from 140	meteorolo 7 CST to 1	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56) Flood Flash Flood
Munden Cloud County 6 S Jamestown KSZ008 Cloud County 5 W Concordia Ottawa County	An up during in Mac occurr NON! NON! 10 10 Repu 10 Water 10 Heavy	pper level disturt the afternoon. Scomb, Illinois of red. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST vas reported by 2126CST 2346CST y rains caused ru	The storms poserved a rot	e roadway sou	o o o th of Courtl o way 28 and c	o o o o o o caused it to	s Northeast lel clouds. A ty from 140	meteorolo 7 CST to 1	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56) Flood Flash Flood hours.
IOWA, Northwest IOWA, Southwest KANSAS, East Republic County Munden Cloud County 6 S Jamestown KSZ008 Cloud County 5 W Concordia	An up during in Mac occurr NON! NON! 10 10 Repu 10 Water	pper level disturt the afternoon. Scomb, Illinois of red. E REPORTED. E REPORTED. E REPORTED. 2027CST 2033CST ablic 2053CST 2100CST was reported by 2126CST 2346CST	The storms poserved a rot	e roadway sou	ons to develop hail with a land move acress of the control of the	o o o o o o o o o o o o o	s Northeast lel clouds. A ty from 140	meteorolo 7 CST to 1	Southeast Iowa, and West Central I gy professor at Western Illinois Univ 412 CST. Fortunately, no tornadog Thunderstorm Wind (G52) Thunderstorm Wind (G56) Flood Flash Flood

		Time Local/	Path	Path Width		ber of sons	Estim		September 2003
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	sons Injured	Dam Property	age Crops	Character of Storm
KANSAS, East									
Cloud County									
Concordia	10	2346CST			0	0			Flash Flood
	11	0130CST							
						from heav	y rains. Hig	ghway 9 ha	ad water over the roadway in several areas
KSZ020-034		ding near Macyv d - Ottawa	me, soumwe	est of Concord	ıa.				
1102020-034	11	0001CST			0	0			Flood
	13	2000CST			v	v			11000
KANSAS, Extreme	floodi	ng was minor in d at 32.6 feet on	most areas a	s the rivers cre	ested only or	ne to three	feet above		unties into flood for several days. The river . However, the Solomon River near Glasco
Crawford County		<u> </u>							
Girard	01	1710CST			0	0			Flash Flood
	-	1830CST							
Danish an Canada	Law e	enforcement offi	cials observe	d several stree	ets and low v	vater cross	sings flooded	d near the c	community of Girard.
Bourbon County Devon	26	1620CST			0	0			Hail (1.00)
Devon	20	1020CS1			U	U			Hall (1.00)
Bourbon County									
Garland	26	1710CST			0	0			Hail (0.75)
Crawford County									
Arcadia	26	1745CST			0	0			Hail (0.75)
KANSAS, North Ce Rooks County	<u>ntral</u>								
2 S Stockton	10	1544CST			0	0	25K	150K	Hail (1.75)
Phillips County									
Agra	10	1605CST			0	0	0	0	Hail (0.75)
Smith Country									
Smith County 3 SE Athol	10	1638CST			0	0	0	0	Thunderstorm Wind (G52)
3 SE Athor	10	1036C51			U	U	U	U	Thunderstorm Wind (G32)
Smith County									
Smith Center	10	1652CST			0	0	100K	0	Thunderstorm Wind (G53)
		1702CST							
Daales Country									
Rooks County	10	1715CCT			0	0	25W	150K	Hol (1.75)
Damar	10	1715CST			U	0	25K	150K	Hail (1.75)
Osborne County									
1 S Osborne	10	1735CST			0	0	0	0	Hail (0.75)
Jewell County									
2 S Webber	10	1747CST			0	0	25K	150K	Hail (1.75)
Osborne County									
1 W Osborne	10	1805CST			0	0	0	0	Hail (0.75)
1 W Osborne	10	1003051			v	v	v	v	11an (0.73)
Jewell County									
4 N Burr Oak	10	1807CST			0	0	10K	0	Thunderstorm Wind (G56)
10. 1 H G									
Mitchell County	10	1045 CCT			•	0	10077	•	TEL 1 4 XXV 1/C(T4)
Glen Elder	10	1945CST			0	0	100K	0	Thunderstorm Wind (G71)
Mitchell County									
Countywide	10	2045CST			0	1	500K	500K	Flash Flood
.	11	0200CST			-				
1707010	3.54.								
KSZ019	Mitcl				•	•	FOOT	45.5	Tal 1
	11 12	0200CST 0000CST			0	0	500K	1M	Flood
	14	0000051							

		Time	Path	Path	Num	Number of Estimated Persons Damage		ated		September 2003
		Local/	Length	Width	Per			age		zeptemeer zees
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

KANSAS, North Central

KANSAS, Northeast

Severe thunderstorms produced large hail, high winds and torrential rainfall across north-central Kansas. The extremely heavy rain resulted in widespread flooding across Mitchell county. Before the flooding began, the complex of thunderstorms had a history of producing winds in excess of 60 mph and hail to the size of golf balls. The largest hail was reported near Damar and Stockton in Rooks county, and around Webber in Jewell county. Winds of 60 to 80 mph were also reported and caused damage from Smith Center to Glen Elder. In Smith Center, a roof was torn from a church by the high wind while windows were blown out of a downtown business. Large tree limbs were reported down in the Glen Elder area. Electricity was lost to several locations throughout the night.

By late evening, radar estimates and reports from around Mitchell county began to paint a picture of torrential rainfall and widespread flooding across the county. About 8 inches of rain was reported in Beloit, with 8 to 12 inches measured south and east of town. Water was over Highway 14 south of Beloit. The road was blocked off for a time. There were reports of numerous bridges and roads under water or washed out from west of Beloit to the east end of the county along and near the Solomon River. At the Indian Creek Bridge about 2 miles west of Beloit, a farmer narrowly escaped death as his tractor collapsed the bridge and he was washed into the creek and eventually into the Solomon River. After being washed downstream by the raging current, the farmer grabbed a hold of some tree branches along the river and pulled himself to safety from the water. He suffered minor injuries from the ordeal.

The Solomon River was out of its banks from west of Beloit downstream to Simpson. The river crested around 25 feet at Beloit or about 5 feet above flood stage. The flow recorded by the USGS at Simpson on the eastern Mitchell county line was greater than the flow recorded in 1993. Throughout Mitchell county, economic losses due to soil erosion, crop flooding and structural damage to farmstead buildings totaled from 1 to 3 million dollars.

Miami County 4 E Bucyrus	26	1432CST	0	0	Hail (0.75)
KANSAS, Northwest Gove County 4 W Gove	09	1500MST	0	0	Hail (1.75)
Gove County 4 W Gove	09	1520MST	0	0	Hail (1.00)
Gove County 2 W Gove	09	1524MST	0	0	Hail (0.75)
Sheridan County 15 S Hoxie	09	1604MST	0	0	Hail (0.75)
Sheridan County 4 E Hoxie	09	1615MST	0	0	Hail (1.00)
Gove County 2 W Gove	09	1625MST	0	0	Hail (1.75)
Gove County Gove	09	1627MST	0	0	Hail (2.75)
Gove County Grainfield	09	1634MST	0	0	Hail (0.75)
Gove County Grainfield	09	1635MST	0	0	Hail (2.00)
Sheridan County 3 E Hoxie	09	1652MST	0	0	Hail (1.75)
Sheridan County 1 NE Hoxie	09	1700MST	0	0	Hail (0.88)
Wishite County	Hail a	lmost covered the ground.			
Wichita County Leoti	10	1400MST	0	0	Hail (0.75)
Graham County 7 SE Hill City	10	1502MST	0	0	Hail (0.75)

Location	Data	Time Local/	Path Length	Path Width	Per	nber of rsons	Estim Dam	age	September 2003 Character of Storm
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KANSAS, Northwest									
Graham County									
6 SE Hill City	10	1502MST			0	0			Hail (1.00)
Graham County									
10 SE Hill City	10	1508MST			0	0			Hail (1.75)
									, ,
Graham County	10	15103505							T 11 (4 85)
4 SE Hill City	10	1510MST			0	0			Hail (1.75)
Graham County									
13 SSE Hill City	22	0100MST			0	0			Hail (0.75)
TZANICAC Condition of									
KANSAS, Southeast Lincoln County									
North Portion	10	2200CST			0	0	84K	700K	Flash Flood
1 total 1 of tion	11	0300CST							
									ately 108 square miles, primarily in Cedron
									d damage acreage: 26,250. Included in this naged: 25 dams and 10 miles of fencing.
		tive provided by				or soybea	iiis. Taitii ta	cilities dai	naged. 25 dams and 10 nines of fencing.
Sedgwick County									
Park City	11	0440CST			0	0			Flash Flood
	KEDI	1155CST	Broadway	Avenue floor	ded from 7	7th Street	North thru	03rd Str	eet North, to 101st Street North near the
		wick/Harvey Co		Avenue 1100	ded Holli 7	/III Succe	rvorui, unic	7510 500	tet North, to Torst Street North hear the
Butler County	Ü	•	•						
5 NW De Graff	11	0550CST			0	0			Flash Flood
	Count	1435CST ty Line Road flo	oded 4 miles	west of High	ıway 77 neai	r Butler/M	arion Count	v line	
Sedgwick County	Count	ly Ellie Road 110	oded 4 miles	west of Thigh	iway // near	Butter/W	arion count	y mic.	
Wichita	11	0834CST			0	0			Flash Flood
	TEIL C	1155CST	1 1 1 12.1	C. (55)	G	.: 0	1.000		
		ollowing were it ection, and 2nd a						st Street in	tersection, 31st Street South/South Seneca
Russell County	111015	coulon, and and .	1 / 01140/ 1/1411	iot Biroot Into	100011011111		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
12 N Russell	11	0922CST			0	0			Flash Flood
	Dorad	1130CST ise Creek overfl	owed Highw	av 281 and ad	liacant field	p.			
Butler County	rarau	ise Cleek overin	owed riigiiw	ay 201 and ad	ijacem neius	S.			
Andover	11	1000CST			0	0			Flash Flood
		1435CST							
Butler County	Mead	owlark Element	ary flooded. S	School closed					
3 S Andover	11	1005CST			0	0			Flash Flood
0 0 111140 (01		1435CST			Ü	Ü			1 1000
D. J. C. A	East F	Kellogg/Butler R	oad intersect	ion flooded.					
Butler County 1 W Andover	11	1005CST			0	0			Flash Flood
1 W Andover		1435CST							
	Wom	an trapped in car	r at East Cent	tral/159th Str	eet intersect	ion near T	erradyne Co	untry Club	. Rescue required.
Butler County		1005000							
El Dorado	11	1005CST 1435CST			0	0			Flash Flood
	Nume	erous roads and l	nighways floo	oded.					
Butler County									
5 SW Augusta	11	1030CST 1435CST			0	0			Flash Flood
	Santa	Fe Lake Road f	looded 2 mile	es south of Hi	ighway 54.				
Butler County									
1 W Augusta	11	1030CST			0	0			Flash Flood
	Dika	1435CST Road flooded 1/2	2 mile north	of Highway 5	54				
Butler County	DIKE	roau mooded 1/.	∠ mmc mortifi	or ringirway J	,-r.				
5 N Augusta	11	1039CST			0	0			Flash Flood
	G :	1435CST	G		1 1				
	South	west 50th/Ohio	Street interse	ction barricad	ied.				

		Time Local/	Path Length	Path Width		nber of	Estin Dan		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KANSAS, Southeast									
Butler County									
3 SW El Dorado	11	1039CST			0	0			Flash Flood
	South	1435CST west 20th/Hopk	ine Switch D	ond barricada	d				
Butler County	South	iwest 20th/110pk	ilis Switch K	oau barricauc	u.				
Andover	11	1120CST			0	0	10K		Flash Flood
	Dagge	1435CST	saa flaadad	Evitant of do		:	mitial dama	~~ ~~tim~~	to moveh ammovimation until more details
Butler County	Dasei	nents of 2 non	ies 1100ded.	Extent of da	image unkn	own, so i	muai dama	ge estima	te rough approximation until more details
8 NW Towanda to	11	1130CST			0	0			Flash Flood
11 NW Towanda	Т	1435CST		:1	Ľ-1 25	l 4 - NI4l	4 2041- C4	El	1 dand 12 fact
Butler County	Tawa	Koni Road 11000	ied from 5 mi	lies north of H	ngnway 254	to Northy	west 30th St	reet. Flood	depth averaged 2 feet.
Haverhill	11	1145CST			0	0			Flash Flood
		1435CST							
Butler County	High	way K-96/Haver	hill Road into	ersection floor	ded.				
5 N El Dorado	11	1215CST			0	0			Flash Flood
		1435CST							
D	Waln	ut River bridge	submerged 1/	4 mile west o	f Highway	77.			
Russell County 2 S Russell	22	0010CST			0	0			Hail (0.75)
2 D Russell		0010051			v	Ü			11111 (U.72)
Ellsworth County									
1 SW Holyrood	22	0042CST			0	0			Hail (0.88)
Rice County									
1 N Lyons	22	0110CST			0	0			Hail (0.88)
Manhangan Country									
Mcpherson County Inman	22	0140CST			0	0			Thunderstorm Wind (G52)
		0110001			Ü	Ü			
Harvey County		000000							m
1 E Newton	22	0209CST			0	0			Thunderstorm Wind (G52)
Reno County									
6 E Hutchinson	22	0324CST			0	0			Hail (0.88)
Reno County									
5 W Hutchinson	22	0357CST			0	0			Hail (1.00)
a .									
Harvey County	22	0250CCT			0	0			11-21 (0.75)
2 N Halstead	22	0358CST			U	0			Hail (0.75)
Marion County									
Goessel	22	0405CST			0	0			Thunderstorm Wind (G53)
	KSN	Weatherlab.							
Reno County									
1 N Hutchinson	22	0413CST			0	0			Hail (0.75)
Sedgwick County									
2 NE Wichita	22	0416CST			0	0			Hail (1.00)
	D 11								
Sedgwick County	Radio	station KFDI.							
Park City	22	0417CST			0	0			Hail (1.00)
·									,
Sedgwick County	Radio	station KFDI.							
2 NE Wichita	22	0419CST			0	0			Hail (1.00)
					,	•			()
Sedgwick County	25	0.400 000			^				T 11 (0.75)
Kechi	22	0422CST			0	0			Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of rsons Injured	Estimated Damage Property Crops	September 2003 Character of Storm
			(, , , ,			,	Transport of the second	
KANSAS, Southeast Butler County Andover	22	0430CST			0	0		Hail (0.75)
Butler County Andover	22	0430CST			0	0		Hail (1.00)
Sedgwick County Mt Hope	22	0433CST			0	0		Hail (0.75)
Sedgwick County Mt Hope	22	0433CST			0	0		Thunderstorm Wind (G52)
Butler County Andover	22	0436CST			0	0		Hail (0.75)
Sedgwick County Derby	22	0437CST			0	0		Hail (1.00)
Butler County 2 N Rose Hill	22	0440CST			0	0		Hail (0.88)
Kingman County 4 E Penalosa	22	0445CST			0	0		Hail (0.75)
Butler County Douglass	22	0455CST			0	0		Hail (0.88)
Sedgwick County 3 E Wichita	22	0500CST			0	0		Hail (1.00)
Chautauqua County 2 S Hale	26	1740CST			0	0		Hail (1.50)
Montgomery County 2 S Independence	26	1753CST			0	0		Thunderstorm Wind (G54)
M	A six	inch diameter tr	ee limb had b	een blown ou	t of a tree.			
Montgomery County 2 N Caney	26	1802CST			0	0		Thunderstorm Wind (G60)
Montgomery County Caney	26	1804CST			0	0		Hail (0.75)
Montgomery County Caney	26	1804CST			0	0		Thunderstorm Wind (G60)
KANSAS, Southwest Morton County 10 NW Richfield	09	1500CST			0	0		Hail (0.75)
Stanton County 3 E Johnson	09	1514CST			0	0		Hail (0.88)
Grant County 8 W Ulysses	09	1545CST			0	0		Hail (0.75)
Kearny County 12 SW Lakin	09	1552CST			0	0		Hail (1.00)
Grant County 4 NW Ulysses	09	1554CST			0	0		Hail (0.88)
Kearny County 3 N Deerfield	09	1605CST			0	0		Hail (1.00)

		Time Local/	Path Length	Path Width		nber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KANSAS, Southwest Kearny County 1 SE Lakin	09	1615CST			0	0			Hail (1.00)
Finney County 1 S Friend	09	1618CST			0	0			Hail (0.88)
Grant County 9 N Ulysses	09	1633CST			0	0			Hail (1.75)
Scott County 2 E Scott City	09	1649CST			0	0			Hail (0.88)
Scott County Scott City	09	1700CST			0	0			Hail (1.00)
Stanton County 8 N Big Bow	09	1755CST			0	0			Hail (1.75)
Kearny County 14 SW Lakin	09	1807CST			0	0			Hail (1.00)
Morton County 10 W Richfield	10	0055CST			0	0			Thunderstorm Wind (G65)
Morton County 18 NNE Elkhart	10	0125CST			0	0			Hail (0.88)
Stanton County Johnson	10	0136CST			0	0			Thunderstorm Wind (G53)
Ford County 1 E Dodge City	10	0342CST			0	0			Thunderstorm Wind (G56)
N. G.	Meası	ured by backup	wind equipm	ent.					
Ness County 10 SW Ness City	10	0345CST			0	0			Thunderstorm Wind (G51)
Finney County Garden City	10	0300CST			0	0			Thunderstorm Wind (G56)
Ness County	Two t	o three diamete	r limbs were b	olown down.					
4 NW Ransom	10	1510CST			0	0			Hail (0.75)
Hodgeman County 13 NE Jetmore	10	1515CST			0	0			Hail (1.00)
Ellis County 11 SW Hays	10	1525CST			0	0			Hail (0.75)
Ness County 7 SW Bazine	10	1530CST			0	0			Hail (1.25)
Ness County 2 W Bazine	10	1545CST			0	0			Hail (1.50)
Trego County 4 N Trego Center	10	1551CST			0	0			Hail (0.75)
Clark County 8 SW Minneola	10	1600CST			0	0			Hail (1.00)
Rush County 7 N Mc Cracken	10	1600CST			0	0			Hail (0.88)

		Time Local/	Path Length	Path Width	Per	nber of rsons	Estim Dam	age	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KANSAS, Southwest Clark County 1 E Minneola	10	1610CST			0	0			Hail (0.75)
Meade County 6 NE Fowler	10	1615CST			0	0			Hail (0.88)
Ford County 9 S Dodge City	10	1645CST			0	0			Hail (1.00)
Pawnee County 6 WNW Garfield	10	1650CST			0	0			Hail (1.00)
Edwards County 10 N Kinsley	10	1653CST			0	0			Hail (0.75)
Pawnee County 19 SW Larned	10	1700CST			0	0			Hail (0.88)
Rush County 7 N Mc Cracken	10	1700CST			0	0			Hail (1.50)
Rush County 7 N Mc Cracken	10	1700CST			0	0			Thunderstorm Wind (G52)
Hodgeman County 4 SE Hanston	10	1705CST			0	0			Hail (1.00)
Ness County 9 NE Ness City	10	1710CST			0	0			Thunderstorm Wind (G56)
Ellis County 8 S Hays	10	1715CST			0	0			Thunderstorm Wind (G52)
	Two i	nch diameter tr	ee limbs were	blown down.					
Rush County 6 N Mc Cracken to 7 N Mc Cracken	10 11 Water	1800CST 0200CST was reported of	over many roa	ds.	0	0			Flash Flood
Haskell County		was reported (,, 01 111411, 104						
Sublette	10	1858CST			0	0			Thunderstorm Wind (G53)
Gray County Copeland	10	1917CST			0	0			Thunderstorm Wind (G61)
	Three	inch diameter	tree limbs wer	e blown dowr	1.				
Ellis County Hays	10 11	2000CST 0300CST		1. 1	0	0			Flash Flood
Gray County	Nume	erous county roa	ads were 11000	iea.					
4 N Ensign	10	2040CST			0	0			Thunderstorm Wind (G56)
Ness County									
15 NNE Bazine	10 11 Many	2055CST 0200CST roads in the no	ortheast corner	of the county	0 had two to	0 three feet	of water floy	ving over	Flash Flood them.
Ellis County	·							٠.٠.٠	
Hays	10	1720CST			0	2			Lightning
Mantan Co. 1		Fort Hays stude an area hospital		received mino	or injuries w	vhen light	struck a tree	about 20	feet away. They were treated and released
Morton County 7 SE Richfield	20	1540CST 1542CST			0	0			Hail (0.88)

		Time Local/	Path Length	Path Width		Number of Estimated Persons Damage			September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
KANSAS, Southwest										
Morton County										
6 N Rolla	20	1545CST			0	0			Hail (1.75)	
Morton County										
Morton County 9 N Rolla	20	1545CST			0	0			Hail (1.00)	
) It Itoliu		10 10 00 1			v	Ü			11411 (1100)	
Stevens County	••	4 < 4 0 00000							n (1 =0)	
5 NW Feterita	20	1610CST			0	0			Hail (1.50)	
Stevens County										
12 NW Hugoton	20	1612CST			0	0			Hail (0.75)	
Stevens County										
6 SW Woods	20	1715CST			0	0			Hail (0.88)	
									` ,	
Stevens County	20	1536CCCT			0	0			II-9 (1.50)	
8 SW Woods	20	1726CST			0	0			Hail (1.50)	
Seward County										
7 W Liberal	20	1815CST			0	0			Hail (0.88)	
Ellis County										
6 NW Schoenchen	22	0258CST			0	0			Hail (0.88)	
D I C										
Rush County Liebenthal	22	0305CST			0	0			Hail (0.75)	
Liebentnai	22	0303CB1			v	v			Han (0.75)	
Stafford County										
6 E Hudson	22	0345CST			0	0			Hail (0.88)	
	Leave	s were stripped f	rom the trees	3						
Ellis County										
10 W Hays	22	0405CST			0	0			Hail (0.88)	
Ellis County										
Hays	22	0414CST			0	0			Hail (0.88)	
Rush County										
6 NW Otis	22	0430CST			0	0			Hail (0.88)	
									(,	
Rush County	22	0.422.CCT			0	0			II 11 (0.00)	
2 SE Loretta	22	0433CST			0	0			Hail (0.88)	
KENTUCKY, Central	ì									
Taylor County										
Countywide	02	1200EST 1340EST			0	0			Flash Flood	
	Mt. C		Palestine Ro	oad were cov	ered with w	ater. Gilbo	oa Road was	s closed d	ue to high water. Tay	lors Chapel Road was
011 0 4	covere	ed with flowing v	water and mu	id and was cl	osed.					
Ohio County Hartford	03	1600EST			0	0			Flash Flood	
Hai tioru	03	1700EST			v	v			riasii riood	
T 0 .	Moun	t Vernon Road, l	Lake Lane, a	nd Round Hi	ll Road were	e all closed	d and barrica	ided due t	o high water.	
Larue County Athertonville	03	1910EST			0	0			Flash Flood	
ALUICI CONTINU		2010EST							riash rivuu	
D G	The R	olling Fork Rive	r was out of	its banks and	approaching	g the doors	s of some ho	mes.		
Barren County Countywide	03	2100EST			0	0			Flash Flood	
Countywide	US	2300EST			U	U			F18811 F100U	
*******		al roads were cov	ered with w	ater and close	ed countywio	de.				
KYZ045	Nelso				Δ	Δ.			Flood	
	04 06	0410EST 0600EST			0	0			Flood	
			r at Boston	crested at 38.	8 feet at 5 A	M EST or	n September	5. Flood	stage at Boston is 35	feet. At the crest level,

The Rolling Fork River at Boston crested at 38.8 feet at 5 AM EST on September 5. Flood stage at Boston is 35 feet. At the crest level, agricultural bottomland is flooded.

		Time Local/	Path Length			nber of	Estin Dan		September 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
KENTUCKY, Central									
Jefferson County									
Valley Station	27	0105EST			0	0			Thunderstorm Wind (G50)
					-	-			
	Num	erous large limb	s were downe	ed.					
Jefferson County									
Prospect	27	0115EST			0	0			Thunderstorm Wind (G60)
	A lar	ge tree was down	ned across Hi	ohway 1694 l	between Cre	stwood an	d Prospect		
Meade County	11111	ge aree was do w		.g	our con cre	or wood un	a r rospecti		
Payneville	27	0133EST			0	0			Thunderstorm Wind (G50)
•									
		s were downed.							
KENTUCKY, Eastern	ļ								
Wayne County	0.4	004077677							
Countywide	01	0010EST 0200EST			0	0	0	0	Flash Flood
	Many	y roads were und	ler water and	trees were wa	ished away.	High wat	er stranded s	some peop	ole.
Clay County		,				8			
Countywide	01	0050EST			0	0	0	0	Flash Flood
		0230EST							
CI. C. A	Seve	ral roads were co	overed in water	er.					
Clay County	04	0400ECT			0	0	20K	0	Final Final
1.5 ESE Deer Lick to Manchester	04	0400EST 0800EST			U	0	20K	U	Flash Flood
Manchester	High		ooded for a	seven to ten	mile stretch	n. with se	veral areas	at least th	aree feet deep. Several cars were partia
	_	erged, ruining th							F
Owsley County			•						
1 S Island City	04	0404EST			0	0	0	0	Flash Flood
	T. 1.	0715EST		D . 10	50 111	1 (1		,	
I1 C	Eight	t to ten inches of	water were o	over Route 13.	50. Water a	Iso flowed	across driv	eways and	i into a barn.
Laurel County London	04	0510EST			0	0	20K	0	Flash Flood
London	04	0700EST			U	U	20K	U	Flash Flood
	The 1		were closed	due to flash	flooding: I	East Fourt	h Street at	Tobacco 1	Road, Tobacco Road from Green Street
						and Spring	Street. W	ater was re	eported to be as high as the fender wells
	cars.	One home was	flooded along	with several	businesses.				
Breathitt County		0<0077677					40077		
Countywide	04	0600EST 0730EST			0	0	100K	0	Flash Flood
	Seve		had water f	looded in the	m at Low F	Hollow, ale	ong Kentuc	ky Highwa	ay 30, about 2 miles southwest of Jackso
									The rushing floodwaters washed out brid
	suppo	orts, shifted woo	den bridges, a	and submerge	d several ve	hicles as v	vater and m	ud fell froi	m hillsides. An access tunnel road cut und
									way 52, a portion of a hillside fell onto t
									elivery truck drove through high water, a
									The driver was not injured, but merchand 1098 (Southfork), and several roads off
									ver Fork and Caney Fork. Two feet of wa
									headlights of a pickup truck. Culverts we
	also v	washed out on F	rozen Fork, a	long Route 20	05.			•	
KYZ114	Ows	ley							
	04	0830EST			0	0	0	0	Landslide
	There	e were two lands	lides blockin	o Kentucky E	lighway 11	near the C	lay County	line	
Pike County	111010	were two failus	nides biockill	5 IXCITULKY I	ngnway 11	near are C	iay County	mic.	
3 NE Pikeville	04	0830EST			0	0	0	0	Flash Flood
- 1122 2 mo (mo	٠.	1030EST			v	v	v	v	
				•	ches of wat	ter. Seve	ral low wat	er crossin	ng bridges were under water. School w
D 416: 6	subse	equently cancelle	ed due to floor	ded roads.					
Breathitt County					_	_	_	_	
2 N Dalesburg	16	1315EST			0	0	0	0	Hail (0.75)
	Thea	a quarter inch ha	il was ranorta	nd at Langle C	raak from o	co operati	ve observe		
ZENTHCKV Naudlas		e quarter inch ha	n was reporte	a at Long's C	ieck ifolli a	co-operan	ve observer	•	
KENTUCKY, Northea	ist								

		Time Local/	Path Length	Path Width		ber of sons	Estim Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

KENTUCKY, Norther	<u>n</u>				
VENTUCKY Co4		REPORTED.			
KENTUCKY, Southwo	est				
Livermore to Island	02	1500CST 1600CST	0	0	Heavy Rain
	Water	was reportedly 6 to 8 inches deep over Highwa	y 2110 for	a 75-foot stretch between Live	ermore and Island.
Daviess County Owensboro	03	0400CST	0	0	Heavy Rain
	hold of	0800CST rain flooded typical problem areas near Kentu f roots, causing large trees to tip over. Standing illers Mill Road.			
LAKE ERIE Dunkirk To Buffalo Ny Dunkirk	22	1951EST	0	0	Marine Tstm Wind
Ripley To Dunkirk Ny Dunkirk	22	1951EST	0	0	Marine Tstm Wind
Dunkirk To Buffalo Ny Dunkirk	23	0857EST	0	0	Marine Tstm Wind
Ripley To Dunkirk Ny Dunkirk	23	0857EST	0	0	Marine Tstm Wind
Dunkirk To Buffalo Ny Dunkirk	23	0902EST	0	0	Marine Tstm Wind
Ripley To Dunkirk Ny Dunkirk	23	0902EST	0	0	Marine Tstm Wind
Avon Point To Willowick Oh Avon Point to Willowick	26 27	2300EST 0030EST	0	0	Marine Tstm Wind
Geneva On The Lake Oh To Conneaut Oh Geneva-On-The-Lake to Conneaut	26 27	2300EST 0030EST	0	0	Marine Tstm Wind
Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border Avon Point to Willowick	26 27	2300EST 0030EST	0	0	Marine Tstm Wind
Le Geneva On The Lake To Conneaut Oh Byd 5Nm Offshore To Intl Border Geneva-On-The-Lake to Conneaut	26 27	2300EST 0030EST	0	0	Marine Tstm Wind
Le Reno Beach To The Islands Oh Byd 5Nm Offshore To Intl Border Reno Beach to The Islands	26 27	2300EST 0030EST	0	0	Marine Tstm Wind

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		nber of rsons Injured	Estimated Damage Property C	rops Character of Storm	September 2003
Location	Date	Standard	(Willes)	(Tarus)	Kilicu	Injuicu	1 topcity C	tops Character of Storii	
LAKE ERIE Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to Vermilion		2300EST 0030EST			0	0		Marine Tstm V	Vind
Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border Avon Point	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border Willowick to Geneva-On-The-Lake	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
Reno Beach To The Islands Oh Reno Beach to The Islands	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
The Islands To Vermilion Oh The Islands to Vermilion	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
Vermilion To Avon Point Oh Vermilion to Avon Point	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
Willowick To Geneva On The Lake Oh Willowick to Geneva-On-The-Lake	26 27	2300EST 0030EST			0	0		Marine Tstm V	Vind
	Strong	thunderstorms	moved east a	cross Lake Er	ie and produ	uced wind	gusts in excess of	of 35 knots.	
Ripley To Dunkirk Ny Dunkirk	27	0326EST			0	0		Marine Tstm V	Vind
Dunkirk To Buffalo Ny Dunkirk	27	0335EST			0	0		Marine Tstm V	Vind
Buffalo Hbr And Upr Niagara R Grand Island	27	0405EST			0	0		Marine Tstm V	Vind
Willowick To Geneva On The Lake Oh Willowick to Geneva-On-The-Lake	28	1704EST			0	0		Waterspout	
Avon Point To	A wat	erspout was obs	erved on Lak	e Erie three n	niles north o	of Fairport	Harbor moving	east. No damage occurre	d.
Willowick Oh Avon Point to Willowick	28	1730EST 1900EST			0	0		Marine Tstm V	Vind
Conneaut Oh To Ripley Ny Ripley Ny	28	1730EST 1900EST			0	0		Marine Tstm V	Vind

		Time	Path	Path	Number		Estimated	September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Persons Killed In		Damage Property Crops	Character of Storm
LAKE ERIE Geneva On The Lake Oh To Conneaut Oh Geneva-On-The-Lake to Conneaut	28	1730EST 1900EST			0	0		Marine Tstm Wind
Le Avon Pt To Willowick Oh Byd 5Nm Offshore To Intl Border Avon Point to Willowick	28	1730EST 1900EST			0	0		Marine Tstm Wind
Le Conneaut Oh To Ripley Ny Byd 5Nm Offshore To Intl Border Conneaut to Ripley Ny	28	1730EST 1900EST			0	0		Marine Tstm Wind
Le The Islands To Vermilion Oh Byd 5Nm Offshore To Intl Border The Islands to Vermilion		1730EST 1900EST			0	0		Marine Tstm Wind
Le Vermilion To Avon Pt Oh Byd 5Nm Offshore To Intl Border Vermilion to Avon Point	28	1730EST 1900EST			0	0		Marine Tstm Wind
Le Willowick To Geneva On The Lake Oh Byd 5Nm Offshore To Intl Border Willowick to Geneva-On-The-Lake	28	1730EST 1900EST			0	0		Marine Tstm Wind
The Islands To Vermilion Oh The Islands to Vermilion	28	1730EST 1900EST			0	0		Marine Tstm Wind
Vermilion To Avon Point Oh Vermilion to Avon Point	28	1730EST 1900EST			0	0		Marine Tstm Wind
Willowick To Geneva On The Lake Oh Willowick to Geneva-On-The-Lake	28	1730EST 1900EST			0	0		Marine Tstm Wind
Willowick To Geneva On The Lake Oh	Strong	thunderstorms mo	oved east acr	oss Lake Erie a	and produced	d wind gus	ts in excess of 35 kno	ots.
Willowick to Geneva-On-The-Lake		1741EST 1750EST erspout was obserused no damage.	ved on Lake	e Erie just offsl	0 nore from Ea	0 astlake mo	wing northeast. The	Waterspout waterspout persisted for several minutes,
Willowick To Geneva On The Lake Oh								
Willowick to Geneva-On-The-Lake	29 A wate	1746EST 1750EST erspout was observed	ved on Lake	Erie just offsh	0 ore from Me	0 ntor movir	ng northeast. No dam	Waterspout nage occurred.
				J			<u> </u>	

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
LAKE HURON Presque Isl Lt To Sturgeon Pt Mi Black River	03	1616EST			0	0			Marine Tstm Wi	nd
Lh Presque Isl Lt To Alabaster Mi Ewd Byd 5Nm Offshore To Intl Border 12 NE Sturgeon Point	03	1622EST			0	0			Marine Tstm Wi	nd
5Nm E Of Mackinac Bridge To Presque Isle Lt Mi Presque Isle Light	30	1852EST			0	0			Marine Tstm Wi	nd
Lh 5Nm E Of Mackinac Bridge To Presque Isl Lt Mi Ewd Byd 5Nm Offshore To Intl Border 7 N Presque Isle Light	30	1852EST			0	0			Marine Tstm Wi	nd
Lh Presque Isl Lt To Alabaster Mi Ewd Byd 5Nm Offshore To Intl Border 7 E Presque Isle Light	30	1852EST			0	0			Marine Tstm Wi	nd
Presque Isl Lt To Sturgeon Pt Mi Presque Isle Light	30	1852EST			0	0			Marine Tstm Wi	nd
LAKE MICHIGAN Grand Haven To Whitehall Mi Muskegon Harbor	15	0705EST			0	0			Marine Tstm Wi	nd
G 1m 7.m	The co	oastal observing st	ation in Mu	iskegon harbo	or recorded a	peak win	d gust to 38	knots.		
Grand Traverse Lt To Sleeping Bear Pt Mi 3 N Leland	15	1322EST			0	0			Waterspout	
Lm 5Nm W Of Mackinac Bridge To Manistee Mi Nwd Beyond 5Nm Offshore To Mid Line Of Lake 12 S South Fox Island	15	1322EST			0	0			Waterspout	
Norwood Mi To 5Nm W Of Mackinac Bridge 1 NW Norwood	15	1322EST			0	0			Waterspout	
Sleeping Bear Pt To Manistee Mi Sleeping Bear Point	15	1322EST			0	0			Waterspout	
South Haven To Holland Mi Saugatuck Harbor to Saugatuck Dnes St Prk	22 A mea	1930EST sured peak wind g	gust to 35 k	nots was reco	0 orded by a co	0 pastal obse	ervation stat	ion in Saug	Marine Tstm Wi	nd

		Time Local/	Path Length	Path Width	Numi Pers	ber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
LAKE MICHIGAN									
Grand Haven To Whitehall Mi									
Grand Haven Harbor	23	0215EST 0245EST			0	0	5K		Marine Tstm Wind
Holland To Grand	A rep	ort of a peak wir	id gust to 45	knots was rec	ceived from (Jrand Ha	ven.		
Haven Mi									
Holland Harbor	23	0215EST 0245EST			0	0	5K		Marine Tstm Wind
		asured peak win			orded by an	automate	d surface ob	servation s	tation on top of a condominium complex in
Holland To Grand Haven Mi	Holla	nd, along the sho	ore of Lake N	Iichigan.					
Holland Harbor	23	0405EST			0	0			Marine Tstm Wind
		0425EST	<i>c</i> 1	. 1 1					
Lm 5Nm W Of	A pea	ık wind gust to 3	6 knots was	reported at the	e Holland St	ate Park.			
Mackinac Bridge To									
Manistee Mi Nwd									
Beyond 5Nm Offshore To Mid Line Of Lake									
8 NE Charlevoix	27	1454EST			0	0			Waterspout
Norwood Mi To 5Nm									
W Of Mackinac Bridge									
5 W Petoskey	27	1454EST			0	0			Waterspout
LAKE ONTARIO									
Niagara R To Thirty									
Mile Pt Ny Thirty Mile Point	27	0435EST			0	0			Marine Tstm Wind
1 mrty vine i omt	21	0433E31			U	U			Warme Isun Wind
LAKE SUPERIOR									
Munising To Grand Marais Mi									
2 NE Grand Is. Harbor	30	1015EST			0	0			Waterspout
Grand Is. Harbor Lt	Two	1017EST waterspouts wer	e sighted in:	st northeast o	of the North	Light on	Grand Islan	nd These	waterspouts were formed by very cold air
	flowi	ng over the relati					Grand Islan	ac. These	waterspouls were formed by very cold un
LOUISIANA, Northea	<u>st</u>								
I OTICIANA N		E REPORTED.							
LOUISIANA, Northwe	<u>est</u>								
LOUISIANA, Southea		E REPORTED.							
Tangipahoa Parish	<u>50</u>								
1 E Arcola	13	1310CST			0	0	0.50K		Thunderstorm Wind (G50)
	A larg	ge tree was blow	n down in th	e vicinity of T	Town Road a	nd Highw	ay 10.		
LOUISIANA, Southwe	<u>est</u>								
Lafayette Parish Lafayette	13	1800CST			0	0	25K		Flash Flood
Larayette	13	2000CST			Ū	v	2310		Fiasii Fioou
Colored B 11	Aroun	d three inches of	f rain fell in l	ess than an ho	our, resulting	in street	flooding acr	oss the city	of Lafayette.
Calcasieu Parish Vinton	21	1330CST			0	0	15K		Thunderstorm Wind (G50)
			d atmictional :	lomaga as hi-					• •
	severa	al homes receive	u structural c	iamage as hig	ıı wınas battı	erea the re	egion.		

		Time	Path	Path	Nur	nber of	Estim	ated		September 2003
		Local/	Length	Width	Pe	rsons	Dama	age		Septemetr 2000
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MAINE, North

NONE REPORTED.

MAINE, South

MEZ018>019-023>028 Interior York - Interior Cumberland - Coastal York - Coastal Cumberland - Sagadahoc - Lincoln - Knox -

Coastal Waldo

 $23 \hspace{0.5cm} 1300 EST \hspace{0.5cm} 0 \hspace{0.5cm} 0 \hspace{0.5cm} 4K \hspace{0.5cm} Strong \hspace{0.5cm} Wind$

1900EST

Strong, gusty south winds downed tree limbs onto power lines causing scattered power outages. About 5700 customers were affected by power outages, mostly in the Portland, Brunswick, and Rockland areas. Winds gusted to 35 mph (measured) at Portland and 33 mph (measured) at Brunswick.

MARYLAND, Central

MDZ008-012-015-

19

0000EST

1700EST

019>020

NOT RECEIVED.

MARYLAND,	Northeast
-----------	-----------

MARYLAND, Northe	ası				
Cecil County Northwest Portion	15	1700EST 2000EST	0	0	Flash Flood
		nely heavy rain across Chester County forced aused downstream flooding along the Octoraro			Chester County to open gates at that site.
Caroline County				·	
Countywide	18	1100EST 2300EST	0	0	Heavy Rain
Talbot County					
Countywide	18	1100EST 2300EST	0	0	Heavy Rain
Queen Anne'S County					
Countywide	18 19	1200EST 0000EST	0	0	Heavy Rain
Kent County					
Countywide	18 19	1300EST 0100EST	0	0	Heavy Rain
Cecil County					
Countywide	18 19	1400EST 0200EST	0	0	Heavy Rain
MDZ012-015-019>020	Kent	- Queen Annes - Talbot - Caroline			
NIDEOIE VIS VISCOEV	18 19	1400EST 0500EST	0	0	Tropical Storm
MDZ008	Cecil				
	18 19	1600EST 0500EST	0	0	High Wind (G50)

Cecil - Kent - Queen Annes - Talbot - Caroline

Tropical Storm Isabel caused a record breaking tide and storm surge up the Chesapeake Bay, heavy rain and strong power outage producing winds. Isabel made landfall as a hurricane near Drum Inlet, North Carolina around 100 p.m. EDT on the 18th and weakened as it tracked farther inland. At one time in its life cycle, it was a powerful Category 5 hurricane when it was north of the Leewood Islands. Isabel's track took it west of the bay and was able to funnel water into the bay. This caused flooding along coastal areas into Cecil County. A record breaking high tide of 7.91 feet above mean lower low water was observed at Tolchester Beach (Kent County). The surge was 6.88 feet. Tidal flooding problems began after Midnight EDT on the 19th and continued throughout the day on the 19th. The surge was so strong that it negated the normal tide cycle in the bay. Evacuations occurred near the bay. For example, in Kent County emergency management officials evacuated residents along Eastern Neck Road (State Route 455) from Rock Hall to the Eastern Neck Island. Tidal flooding occurred in and around Rock Hall, Chestertown, Skinners Neck, Piney Neck and Cliffs City. Tidal flooding carried inland on the Chester River to Chestertown. Over 100 homes, vehicles and boats were damaged and/or ruined. In addition, eleven marinas, three restaurants, two hotels, two Bed and Breakfast facilities, one boat building business and one marine

Storm Surge

<u> </u>	tori	n Data	and	Unusi	ial W	eati	ner Pher	nomena
		Time	Path	Path	Numbe		Estimated	September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Damage Property Crops	1
AARYLAND, Northe	<u>ast</u>							
	18th in rain w are oft lines t	nto the early mo ith tropical syste en on the right s	rning of the ems often fall side of the sto own. This wa	19th. There was west of its sorm track. With as one of the	vere no repor storm track, the nds gusted u worst power	ts of stre he region p to 58 m outage e	am related flooding was spared heavie aph in the bay and	nd occurred mainly from the afternoon of the due to the heavy rain. Because the heavies r rain. On the other hand, the strongest wind caused numerous trees, tree limbs and power Conectiv Energy. About 65,750 homes and
V. A.C.	44 mp Count	h in Tolchester	Beach. Stori	n totals inclu	ded 3.40 incl	hes in Fe	deralsburg (Carolin	timore-Washington International Airport and ne County), 3.13 inches in Denton (Carolin ueen Anne's County) and 2.03 inches at the
Kent County Countywide	23	0500EST 0545EST			0	0		Thunderstorm Wind (G50)
Queen Anne'S County Countywide	23	0500EST 0545EST			0	0		Thunderstorm Wind (G50)
Tallad Const							hroughout Kent and Anne's County.	d Queen Anne's Counties. The worst reported
Talbot County Easton	23	0545EST			0	0		Thunderstorm Wind (G52)
MARYLAND, South	A line	of severe thunde	erstorms knoo	cked down tre	es and wires	and dama	ged a chicken coop	in Easton.
ARYLAND, West Garrett County	NOT	RECEIVED.						
Gorman	01	1820EST 1920EST : 560 flooded.			0	0		Flash Flood
MDZ001	Garr							
	18	2330EST			0	0	5K	High Wind (G52)
	over P		und 8 AM E	DT on the 19				ng down trees and utility lines. Isabel passed PM on the 18th and continued, from time to
Garrett County Oakland	19	0115EST 0415EST			0	0		Flash Flood
		•	of rain, stream	ns overflowed	and flooded	many roa	nds around Oakland	l.
MDZ001	Garr 19	ett 0345EST 0700EST			0	0		Flood
	Nume	rous roads rema	in flooded be	tween Oaklar	d and Grants	ville.		
Garrett County Oakland	27	1534EST			0	0		Hail (0.75)
Garrett County Swanton	27	1542EST			0	0		Hail (1.00)
MASSACHUSETTS,	Centra	al and East						
Hampden County Granville to Blandford	23	1010EST			0	0	5K	Thunderstorm Wind (G50)
Hampden County Southwick to Westfield	23	1053EST 1300EST			0	0	15K	Flash Flood

10K

Flash Flood

Hampshire County Northampton to Amherst

1100EST 1300EST

23

		Time Local/	Path Length	Path Width		nber of rsons	Estim Dama			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MASSACHUSETTS, Central and East

A severe thunderstorm downed large tree limbs in Granville and Blandford. Torrential rainfall from the thunderstorm cause significant urban flooding. Several roads were closed due to flooding, including part of Route 202 in Southwick. In Springfield, eight people were rescued after they became stranded in flooded vehicles. In Westfield, flooding closed the intersection of Springfield Road and East Mountain Road, where three feet of water covered the road. In Northampton, North Street was closed due to flooding. Police closed off several roads in Springfield temporarily, including the Dwight Street exit from I-291, Tapley Street, Parker Street, Roosevelt Avenue, and Tiffany Street. In Holyoke, flooding affected the underpasses at Commercial, Sargeant, Mosier, and Bower Streets. Other hard hit areas included Hampshire Street, Route 5, and Bemis Road.

Hampden County Agawam to Westfield	28	1100EST 1800EST	0	0	20K	Flash Flood
Hampshire County Easthampton to Northampton	28	1300EST 1800EST	0	0	15K	Flash Flood
Franklin County Greenfield	28	1400EST 1800EST	0	0	10K	Flash Flood

Torrential rainfall caused flash flooding in the Connecticut River Valley. Nearly 4 inches of rain fell in a few hours, causing significant urban flooding from Agawam to Northampton. Several roads were closed in Westfield, Agawam, Chicopee, West Springfield, Easthampton, and Northampton where flood waters rose up to the doors of vehicles. In Greenfield, the Green River rose out of its banks and forced the closure of Nash's Mill Road between Colrain and Leyden Roads.

Hampden County

Westfield 29 1542EST 0 0 Hail (0.75)

A severe thunderstorm produced dime sized hail in Westfield.

MASSACHUSETTS, West

NONE REPORTED MICHIGAN, East **Lenawee County** 4 E Addison 1835EST Thunderstorm Wind (G54) A trained weather spotter reported 16 inch diameter tree limbs down. **Lenawee County** 3 NW Onsted 1835EST Thunderstorm Wind (G52) A trained weather spotter estimated 60 mph thunderstorm wind gusts. **Lenawee County** Addison 24 1855EST 0 Thunderstorm Wind (G56) Spotters reported trees blown down. Lenawee County Onsted 1855EST Thunderstorm Wind (G56) A trained weather spotter reported trees blown down. MICHIGAN, Extreme Southwest **Hillsdale County** 8 NE Hillsdale 1750EST 24 Thunderstorm Wind (G50) Emergency management reported trees down northeast of Hillsdale. **Hillsdale County North Adams** 24 1800EST 0 Thunderstorm Wind (G50) Emergency management reported trees down in North Adams. MICHIGAN, North **Benzie County** 2 S Frankfort 15 1204EST 0 Hail (0.75)

A strong upper level disturbance contributed to widespread thunderstorms. A large number of these produced small hail, though only one report of severe-criteria hail was received. Some waterspouts also occurred over nearby waters of the Great Lakes.

		Time Local/	Path Length	Path Width	Per	ber of sons	Estimated Damage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
MICHIGAN, Upper MIZ001	Kewe	eenaw 1847EST 2021EST			0	0		High Wind (G60)
	develo	oped over the kas 57 mph at H	Keweenaw Per loughton, and	ninsula and o the Stannard	ver Lake Sup l Rock lighth	perior, as to louse meas	the low deepened and sured a sustained wi	te Superior on September 19. High winds d moved into Ontario. West winds gusted as nd of 53 knots, or 61 mph, during the early into the night in several communities.
MICHIGAN, West Allegan County	15	1100000					577	W 11 0 22
Wayland	15	1108EST			0	0	5K	Hail (0.75)
Barry County	An iso	olated severe th	nunderstorm p	roduced three	e quarters inc	h diametei	hail in Wayland.	
Middleville	24	1630EST			0	0	5K	Hail (0.75)
MINNESOTA, Centr				ted with an is	olated severe	thunderst	orm two miles south	of Middleville.
Anoka County Blaine	26	1530CST			0	0		Funnel Cloud
MINNESOTA, North		Lexington and	109th.					
MINNESOTA, North		E REPORTED).					
Polk County 4 NW Eldred	17	0010CST			0	0		Hail (0.75)
Lake Of The Woods County								
Angle Inlet	17	0015CST			0	0		Hail (0.75)
Marshall County 1 NE Grygla	17	0200CST			0	0		Hail (0.88)
Wilkin County 5 SE Wolverton	17	1112CST			0	0		Hail (0.75)
Becker County .5 E Cormorant	17	1205CST			0	0		Hail (0.88)
Otter Tail County 5 E Dunvilla	17	1218CST			0	0		Hail (1.00)
Becker County 1 NW Cormorant	17	1240CST			0	0		Hail (0.75)
Polk County Crookston	17	1250CST			0	0		Hail (1.00)
Polk County 5 NE Crookston	17	1300CST			0	0		Hail (0.88)
Lake Of The Woods County 1 S Williams	17	1610CST			0	0		Hail (1.50)
Marshall County 2 E Holt	17	1630CST			0	0		Hail (1.25)
Marshall County 6 N Gatzke	17	1655CST			0	0		Hail (0.75)

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estim Dam Property	Character of Storm	September 2003
			(======)	(=====)		,			
MINNESOTA, Northw Roseau County 3 SE Pencer	<u>vest</u> 17	1740CST			0	0		Hail (1.25)	
Roseau County Warroad	17	1750CST			0	0		Hail (0.75)	
Lake Of The Woods County Arnesen	17	1800CST			0	0		Hail (0.75)	
MINNESOTA, Southe	<u>ast</u>								
MINNESOTA, Southw		E REPORTED.							
MINNESOTA, West	NONI	E REPORTED.							
MINNESOTA, West C		E REPORTED. <u> </u>							
	NONE	E REPORTED.							
MISSISSIPPI, Central Jasper County Louin	09	1710CST			0	0	1K	Hail (0.75)	
MISSISSIPPI, North									
MISSISSIPPI, South	NONE	E REPORTED.							
MISSISSIPPI, Souther		E REPORTED.							
MISSOURI, East Boone County	NONE	E REPORTED.							
Ashland	21	1605CST			0	0		Hail (0.75)	
Boone County Ashland	21	1605CST			0	0		Thunderstorm V	Vind (G50)
To to Co. of	Storm	spotters reported 3	3/4 inch hai	l and wind gu	sts of 50 to	60 mph.			
Lewis County Canton	26	1350CST			0	0		Hail (1.25)	
	Officia	als at Lock and Da	an 20 repor	ted 1 1/4 inch	hail.				
Ralls County 6 E Rensselaer	26	1505CST			0	0		Thunderstorm V	Vind (G60)
Marion County	A loca	al golf course repo	rted trees de	own.					
Hannibal	26	1510CST			0	0		Thunderstorm V	Vind (G55)
	A few	trees were reporte	ed down in	Hannibal.					

	Time Path Path Number of Estimated Local/ Length Width Persons Damage			September 2003					
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MISSOURI, East									
Ralls County New London	26	1520CST			0	0			Thunderstorm Wind (G55)
D C 4	The C	County Sheriff of	ffice reported	trees down in	n New Lond	on.			
Boone County Columbia	26	1545CST			0	0			Hail (0.75)
N. " G .	Storm	spotters reporte	ed 3/4 inch ha	ail just north i	if I-70 in Co	lumbia.			
Moniteau County Tipton	26	1600CST			0	0			Thunderstorm Wind (G60)
	The C	County Sheriff of	ffice reported	some traffic	lights and w	rires down	in Tipton.		
Moniteau County Clarksburg	26	1610CST			0	0			Thunderstorm Wind (G55)
Piles Country	Thun	derstorm wind g	usts broke a p	power pole or	the northea	ast side of	Clarksburg.		
Pike County 5 N Clarksville	26	1615CST			0	0			Thunderstorm Wind (G55)
C. H C	Amat	eur radio spotter	rs reported tre	es down on I	Highway 79	north of C	Clarksville.		
Callaway County Fulton	26	1630CST			0	0			Thunderstorm Wind (G55)
	Scatte	ered trees and po	wer lines we	re reported do	own in vario	us parts of	Fulton.		
Lincoln County Troy	26	1638CST			0	0			Thunderstorm Wind (G55)
a. a	Amat	eur radio spotter	s reported po	wer lines dov	vn on the no	orth side of	Troy.		
St. Charles County Wentzville	26	1654CST			0	0			Thunderstorm Wind (G55)
a a	The C	County Sheriff of	ffice reported	trees down o	on Piney Ro	ad near Hig	ghway 40/6	1.	
St. Louis County Chesterfield	26	1712CST			0	0			Thunderstorm Wind (G55)
	Local	police reported	a downed tre	e which fell o	on a power p	ole causing	g a power o	utage.	
St. Louis County Ferguson	26	1735CST			0	0			Thunderstorm Wind (G55)
					down across	North St.	Louis Cour	nty, primar	ily in the Ferguson area. One home suffered
Franklin County	minoi	damage due to	a downed tre	e.					
1 W Sullivan	26	1815CST 1816CST	0.2	50	0	0			Tornado (F0)
		County Sheriff of approoted.	office reported	d a brief torn	ado just we	est of Sulli	van along I	-44. Some	highway billboards were blown down and
Franklin County Sullivan	26	1820CST			0	0			Funnel Cloud
Franklin County									
Sullivan	26	1820CST			0	0			Hail (0.75)
Fuerble Courts	Amate	eur radio spotter	s reported a a	funnel cloud	and 3/4 inc	ch hail in S	ullivan.		
Franklin County Stanton	26	1830CST			0	0			Thunderstorm Wind (G60)
T. 66 C	The C	County Sheriff of	ffice reported	Highway bil	lboards blov	wn down al	long I-44 ne	ear Stanton	
Jefferson County Pevely	26	1830CST			0	1			Thunderstorm Wind (G55)
						ll Festival.	Several ten	ts were blo	wn down and booths damaged. One woman
MISSOURI, Lower	surrer	ed minor injurie	s when she w	as struck by	a tent poie.				

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

MISSOURI, Northeast

NONE REPORTED.

MISSOURI, Nort	thw	est
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MOZ031-040-046 Carroll - Howard - Cooper

0100CST 01 Flood

02 0400CST

Heavy rains helped produce minor flooding on Moniteau Creek, Wakenda Creek , and Petite Saline Creek. Moniteau Creek near Fayette crested at 18.25 feet or 2.25 feet above flood stage. Wakenda Creek at Carrollton crested at 20.0 feet or right at flood stage.

Petite Saline Creek near Boonville crested at 18.43 feet or 2.43 above flood stage.

Jackson County 2 N Blue Spgs	26	1355CST	0)	0	Hail (0.75)
Lafayette County Odessa	26	1415CST	0	,	0	Hail (1.50)
Lafayette County Odessa	26	1415CST	0)	0	Thunderstorm Wind (G52)
Cass County Freeman	26	1450CST	0	,	0	Hail (0.75)
Henry County 3 NW Urich	26	1530CST	0	,	0	Hail (1.00)
Henry County Clinton	26	1600CST	0)	0	Hail (0.75)
MISSOURI, Souther Butler County	<u>east</u>					
Poplar Bluff to 3 N Poplar Bluff	02	1212CST 1600CST	0)	0	Flash Flood
Wayne County Countywide	02	1212CST 1400CST	0)	0	Flash Flood
Ripley County Oxly to Naylor	02	1300CST 1600CST	0)	0	Flash Flood

Heavy rain, estimated from 1 to 2 inches in a few hours, fell over saturated ground. Flood control channels around Wappapello Lake along D Highway were full. A bridge was washed out on Tower Road north of Poplar Bluff. In Butler County, two water rescues were conducted on County Road 525 when two vehicles became stranded in floodwater. On the southwest side of Poplar Bluff, two 13-year-old boys who were playing along a creek got swept into the creek. The boys ended up in Cane Creek and were found a couple of hours later with only scratches. In Poplar Bluff, low areas near downtown were flooded, with 6 to 12 inches of water on many streets. Some streets were barricaded as several cars stalled out. There were two buildings with basements flooded. Highway 142 was partially covered by water. A co-operative observer in Poplar Bluff measured a four-day rainfall total from August 30 to September 2 of 6.66 inches. In Ripley County, high water swept a car off a low-water bridge near Oxly. The driver was briefly stranded on top of his vehicle. Several low water bridges and gravel roads were flooded in Ripley County. Water was over Highway 53 about 5 miles south of Poplar Bluff, Highway 60 west of Poplar Bluff, and the Hillard Bridge on W Highway. A few bridges were washed out on back roads in the Neelyville area.

Scott County

Countywide 02 1315CST **Heavy Rain**

1500CST Cape Girardeau

County 1 S Delta 1700CST 02 0 **Heavy Rain**

> Heavy rain on top of saturated ground caused low-lying flooding in Scott County. No property damage or road closures were reported. In Cape Girardeau County, Highway 25 was covered by water south of Delta, but no closure was reported. Rainfall was reported to be 0.75 inch per hour when the low-lying flooding occurred. Around 3 inches of rain fell in the previous 24 hours.

		Time Local/	Path Length	Path Width	Numb Perso		Estimated Damage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
MISSOURI, Southwes	st							
Morgan County								
5 S Gravois Mills	01	0200CST 0300CST			0	0		Flash Flood
	Law e		icials observe	d several cou	nty roads and	low wate	er crossings flooded ov	er.
Camden County							-	
Climax Spgs	01	0700CST 0800CST			0	0		Flash Flood
	Sever		ssings in the	northwestern	section of Ca	mden Co	ounty were inundated.	
Miller County	0.4	0 =2 0 GGT			•			
Eldon	01	0730CST 0830CST			0	0		Flash Flood
	A sec		Z was flood	ed over along	with several	area low	water crossings.	
Morgan County	0.1	1000000			0	0		
Gravois Mills	01	1000CST 1100CST			0	0		Flash Flood
	Law e	enforcement off	icials observe	d a flooded o	ver section of	Highway	/ O.	
Texas County	1.4	2240CCT			0	0	1017	Fld. Fld
4 S Houston	14 15	2340CST 0100CST			0	0	10K	Flash Flood
								ton. A dispatcher from the Texas County
Morgan County	Sherif	ts Office was w	ashed off the	road on her v	vay home froi	n work.	A water rescue was pe	erformed.
Gravois Mills	18	1720CST			0	0		Thunderstorm Wind (G60)
	Larra	unfoucement off	امناه مامندا	d carranal darr	mad tuana fuan		thum donotomo vvin d ou	ata.
Greene County	Law e	enforcement off	iciais observed	a severai dow	ned trees from	n severe	thunderstorm wind gus	sts.
4 S Ash Grove	21	1527CST			0	0		Hail (0.75)
Tonov County								
Taney County Walnut Shade	21	1748CST			0	0		Hail (0.75)
								,
Benton County Lincoln	21	1815CST			0	0		Flash Flood
Lincom	21	1930CST			U	U		Flash Flood
	Sever floodi		ter inundated	a section of I	Highway 65.	Numerou	us roads in and near th	e community of Lincoln experienced minor
Morgan County	110001	ng.						
Syracuse	26	1600CST			0	0		Hail (1.00)
St. Clair County								
Appleton City	26	1625CST			0	0		Hail (0.75)
Maria Carat								
Morgan County 5 NE Versailles	26	1645CST			0	0		Thunderstorm Wind (G60)
Benton County	Sever	al large tree bra	nches were sn	apped off of	trees from sev	ere thun	derstorm wind gusts.	
Warsaw	26	1650CST			0	0	0.50K	Thunderstorm Wind (G60)
	Nume	erous trees and p	ouver lines w	ara dassimad fi	rom covers this	undaratar	m wind quete	
Benton County	Ivuille	rous nees and p	ower mies we	are downed in	ioni severe un	under stor	iii wiiid gusts.	
Fristoe	26	1705CST			0	0		Thunderstorm Wind (G60)
	Sever	al large tree lim	bs were down	ed from seve	re thunderstor	rm wind	gusts.	
Vernon County							5	
Richards	26	1710CST			0	0		Thunderstorm Wind (G60)
	Sever	al trees were do	wned from se	vere thunders	storm wind gu	ists.		
Hickory County								
2 W Hermitage	26	1715CST			0	0		Thunderstorm Wind (G60)
	A larg	ge tree was dow	ned across Hi	ghway 54 fro	m severe thur	nderstorm	n wind gusts.	
Camden County 7 N Climax Spgs	26	1720CST			0	0		Thunderstorm Wind (G60)
7 14 Cinnax Spgs	20	1/20031			U	J		manucistorm wind (Goo)

Emergency management officials observed several downed trees over rural Camden County from severe thunderstorm wind gusts.

	Time Path Path Number of Estima Local/ Length Width Persons Damag			September 2003					
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MISSOURI, Southwest	<u>t</u>								
Vernon County 2 W Bronaugh	26	1730CST			0	0			Hail (0.75)
Benton County Whitakerville	26	1800CST			0	0			Hail (0.75)
Dallas County 3 SE Tunas	26	1806CST			0	0			Thunderstorm Wind (G60)
	Severa	l large tree limb	s were down	ed from seve	ere thundersto	rm wind	gusts.		
Barton County 5 E Lamar	26	1815CST			0	0			Hail (0.75)
Barton County Liberal	26	1815CST			0	0			Hail (0.75)
Barton County Lamar	26	1820CST			0	0	0.50K		Thunderstorm Wind (G65)
.	Law en	forcement offic	ials observed	l downed po	wer lines fron	n severe tl	nunderstorm	wind gust	s.
Dade County Lockwood	26	1840CST			0	0	1K		Thunderstorm Wind (G65)
Dolly Country	Amate	ur radio operato	rs observed s	several trees	and power lin	es downe	d from sever	e thunders	storm wind gusts.
Polk County Brighton	26	1847CST			0	0			Thunderstorm Wind (G60)
Lawrence County Miller	26	1915CST			0	0			Thunderstorm Wind (G60)
T	Severa	l large tree limb	s were down	ed from seve	ere thundersto	rm wind g	gusts.		
Lawrence County Halltown	26	2000CST			0	0	0.50K		Thunderstorm Wind (G60)
G4 G 4	Numer	ous trees and po	wer lines we	ere downed f	from thunders	torm wind	l gusts.		
Stone County 2 NW Galena	26	2010CST			0	0			Hail (0.88)
Taney County Walnut Shade	26	2015CST			0	0			Hail (0.75)
MONTANA, Central									
Gallatin County 11 N West Yellowstone to 12 N West Yellowstone	01 15	0000MST 1200MST			0	0			Wildfire
	acres b		d of August	, and an add	ditional 1000	acres buri	ned in Septe	mber. No	rildfire was named the Rathbone Fire. 2000 structural losses or injuries were reported. smoke.
Gallatin County 6 N West Yellowstone to 7 N West Yellowstone	03	1517MST 1518MST			0	0	3K		Dust Devil
MTZ010-048	wide, as		half mile. T	he dust devi his debris w	l struck a few as blown in th	camping ne air abou	tents and or		s on the ground for 1 minute, it was 6 feet ent tent. A few personal items and a laptop
	11	0700MST 1700MST			0	0			High Wind (G49)
MTZ047	_	ear 55 mph.	ved through	the Rocky	Mountain Fro	ont on the	e 11th. Susta	ined wind	ds averaged between 40 and 45 mph, with
MALEUT!	13	1524MST			0	0			High Wind (G51)
	A high	wind gust of 59	mph occurr	ed at Chinoc	ok 11S at 152	4 MST.			

		Time Local/	Path	Path Width		ber of	Estimated	5	September 2003
Location	Date	Standard	Length (Miles)	(Yards)	Killed	sons Injured	Damage Property Crops	Character of Storm	_
MONTANA, Central MTZ014	South 25	hern Lewis And 1000MST 1100MST	l Clark		0	0		High Wind (G50)	
MONTANA, East	A high	n wind gust of 58	mph occur	red at McDoi	nald Pass at	1045 MST	Γ, with sustained win	nds near 50 mph from 100	0 to 1100 MST.
MONTANA, South	NON	E REPORTED.							
MONTANA, West	NOT	RECEIVED.							
<u>NEBRASKA, Central</u> Lincoln County	NON	E REPORTED.							
1 N Maxwell	dama		ooted and o	damaged tree	s and a colla	apsed gara	0 0	Thunderstorm Win vinds gusts up to 74 knots ace of these winds, 1 mile	s. A spotter reported
NEBRASKA, East Butler County 2 NE Bellwood	09	1320CST		,	0	0		Hail (0.88)	
Colfax County 4 SE Richland	09	1330CST			0	0		Hail (0.75)	
Cuming County 4 NW West Pt	09	1527CST			0	0		Hail (0.75)	
NEZ088	Jeffer 11 12 Heavy	0800CST 1600CST	s much of	Jefferson cou	0 inty and adja	0	ties to the west on S	Flood eptember 10th and 11th.	Radar estimates and
	espec 11th,	ially along the Lit and didn't drop be	tle Blue R low flood	iver. The Li stage until ar	ttle Blue Ri ound 500 pr	ver surpas n on the 1	ssed it's 15 foot floo	in caused minor flooding d stage near Fairbury are ted at 17.6 feet during the icultural lowlands.	ound 900 am on the
NEZ078	Salin 12		<i>G</i>		0	0	, , , , , , , , , , , , , , , , , , ,	Flood	
	15	0900CST	uch of Sal	ine county Se	eptember 10t			nd rain gage measuremen	ts were in the 4 to 7

lowlands and no significant damage was reported.

NEBRASKA, Extreme Northeast

Dixon County

6 NW Martinsburg 09 1813CST 0 0 Flash Flood

inch range for the 48 hour period. The heavy rain caused minor flooding along Turkey Creek in Saline county. Turkey Creek near Wilber went above it's 11 foot flood stage during the morning hours on the 12th and didn't drop below flood stage until the afternoon of the 15th. The creek near Wilber crested at 14.6 feet during the afternoon of the 14th. The flooding affected mainly agricultural

2000CST

Heavy rainfall of 3 to 5 inches caused a rapid overflow of a small creek.

NEBRASKA, Extreme Southwest

NONE REPORTED.

NEBRASKA, South Central

Phelps County

13 N Funk 09 1845CST 0 0 10K 100K Hail (1.25)

		Time Local/	Path Length	Path Width		Number of Persons		ated	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Dama Property	Crops	Character of Storm
NEBRASKA, South C Buffalo County	<u>Central</u>								
6 W Ravenna	09	1955CST			0	0	0	0	Hail (0.75)
Sherman County 3 SE Hazard	09	2005CST			0	0	0	0	Hail (0.75)
Franklin County 4 SW Bloomington	10	1620CST			0	0	25K	250K	Hail (1.75)
Thayer County Davenport	10	1725CST			0	0	0	0	Hail (1.00)
Clay County Edgar	10	1752CST			0	0	0	0	Hail (0.88)
Fillmore County Shickley	10	1755CST			0	0	0	0	Hail (0.75)
Thayer County Carleton	10	1824CST			0	0	0	0	Thunderstorm Wind (G52)
Fillmore County Countywide	10 11	1930CST 0030CST			0	0	250K	1M	Flash Flood
Thayer County Countywide	10 11	1930CST 0030CST			0	0	250K	1M	Flash Flood
NEZ087	Thay 11 12	er 0600CST 0000CST			0	0	100K	500K	Flood
	of larg due to Rainfa downs	e hail, flash flo water over th ll of 3 to 8 in	ooding and riv e road. Then ches was repo	er flooding ca re were nume orted to have	nused the more rous reports fallen. The	st disrupt of floodi Big San	ion. U.S. Fi ing and wate dy Creek in	lighway 8 er over the Thayer co	ebraska. Though there were some reports I in Fillmore county was closed for a time e roads in Fillmore and Thayer counties. Dunty was out of its banks from Carleton nich resulted in minor flooding in eastern
NEBRASKA, West Scotts Bluff County 2 NW Scottsbluff	09	1643MST 1647MST			0	0			Hail (1.00)
Scotts Bluff County 8 NNE Scottsbluff	09	1705MST 1709MST			0	0			Hail (0.75)
NEVADA, North									
NEVADA, South NVZ019	Sprin 02 Runof		s erstorm east o			0 ay 160 to	become sub	omerged ui	Flood nder 3 feet of water. Several drivers had to
NEVADA, West Lyon County		cued after atter	npting to drive	e through the v					
Dayton	04 Spotte	1530PST 1559PST or reported 4-6	inches of water	er running ove	0 r U.S. Highv	0 vay 50 du	e to heavy th	nunderstori	Flash Flood n rains.
	•	•		<u> </u>		-	•		

		Time	Path	Path	Numbe	er of	Estimated		September 200
ocation	Date	Local/ Standard	Length (Miles)	Width (Yards)	Perso Killed	ns Injured	Damage Property Crops	Character of Storm	September 200
			()	(,	corporation compa		
EW HAMPSHIRE, Grafton County	<u>North</u>	and Central							
Bristol	04	0230EST			0	0	25K	Lightning	
IEW HAMPSHIRE,	underg Electro	ground cable into onic equipment in	the home.	The lightnin	g caused ext		ome in Bristol. The l image to the home's		
IEW JERSEY, North		E REPORTED.							
EW JERSEY, South		RECEIVED.							
NJZ014-024>026	Easte 18 20	ern Monmouth 0600EST 1800EST	- Eastern	Cape May	- Eastern A 1	Atlantic 0	- Eastern Ocean	Heavy Surf/High	Surf
NJZ014-016>019-021-)23>027		ern Monmouth					hwestern Burling n - Southeastern		d - Western Ca
NJZ001-007>010- 012>013-015>020-022- 027							iddlesex - Wester Ocean - Western		
v <u> </u>	18 19 F?VE	1600EST 0500EST			1	0		High Wind (G50)
NJZ014-021-023>026			- Cumber	land - Wes	tern Cape 1 0	May - E 0	astern Cape May	- Eastern Atlanti Tropical Storm	c - Eastern Ocea
	Delaw woma surf of weake Leew one of caused funnel The st places	vare River and ended when a treeff of Wildwood Comed as it tracked bood Islands. Wind of the worst power downstead to considerable beded the winds up form surge was 5	osion and ro e landed and rest. Isabel r farther inlan is gusted up t r outages on ach erosion, Delaware Ba feet. In Burli inch and hal	ugh surf alor crushed the nade landfall d. At one tin o 62 mph in larcord for ar especially in y and River. ngton, the tic	ng the shore. vehicle she w as a hurricar ne in its life New Jersey a rea utilities. V Cape May a At Reedy Po de reached 10	Two dears riding the near D cycle, it and downed While tide and Atlant bint (Delar 0.64 feet.	ds, moderate tidal f this were directly att. In Cape May Count rum Inlet, North Carc was a powerful Cate ed countless numbers e heights along the o tic Counties. The tid tware), the tide reach The storm surge was pical systems often f	ributed to the storm. y, a 51-year-old man blina around 100 p.m gory 5 hurricane wh of trees, tree limbs a ceanside only reached al departures increased 8.66 feet above n 6.49 feet. The rain v	In Warren County drowned in the rou . EDT on the 18th a en it was north of t and power lines. It was do minor, wave acti- ed as southeast win nean lower low wate was not heavy as mo
	55 mp	oh in Millville (Cu	ımberland Co	ounty), 53 mp	h at the Atla	ntic City	nere (Cape May Cour Marina, 52 mph in K led at Ship John Shoa	eansburg (Monmoutl	County) and 47 mj
Gloucester County National Park	23	0625EST			0	0		Thunderstorm V	Vind (G61)
	A pote	ent line of severe	thunderstorm	s uprooted w	hole trees in 1	National 1	Park Borough. House	s were damaged by the	ne fallen trees.
	r			1					
Hunterdon County Sergeantsville to	23	0650EST	2	50	0	0		Tornado (F1)	

A powerful line of severe thunderstorms uprooted trees and downed wires along New Jersey State Route 38 in Cherry Hill Township.

Thunderstorm Wind (G52)

Several houses suffered minor damage. Two barns blew off their foundation. Numerous trees were snapped or uprooted.

Camden County Cherry Hill

23

0655EST

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
NEW JERSEY, Sout	h and N	Vorthwest								
Burlington County										
Countywide	23	0702EST 0825EST			0	0	1.5M		Thunderstorm V	Vind (G61)
	the Fl county	orence Tornado	and the line and damage	of severe st was caused b	orms produc by trees fallin	ed an est	imated prop	erty dama	age of \$2.1 million	y. The combination of dollars throughout the nard hit areas included
Burlington County					•					
Florence to	23	0714EST	1.8	120	0	0	600K		Tornado (F1)	
Roebling	A 17:1	0718EST	4 4 to 171.	Tr	.1	-4-1-1	100	-1 '4	41- C£41 4	£-11 1 1
	home maxir	s. Wind damage	in the county ls were estima	due to the t	ornado and t	he line of	severe thus	nderstorms	s was estimated at \$2	es fell on and damage 2.1 million dollars. Th d lifted in the Roebling
Mercer County			_							
Trenton to Slackwood	23	0715EST 0721EST	3	100	0	0			Tornado (F1)	
	Ewing and the Nume	I tornado touche g Township and he strongest par	into southwest of the torn ower lines we	stern part of I ado occurred ere blown do	Lawrence To l just west o wn and seven	wnship be f the Lav	efore it lifte wrence/Ewi	d around th	ne Slackwood area. Thip border. A car d	gh the southern part of the worst wind damage ealership lost its roof tined on the ground fo
Mercer County										
Countywide	23	0715EST 0745EST			0	0			Thunderstorm V	Vind (G59)
Middleson Country		verful line of sev sured wind gust						hout Merc	eer County. A SKYW	ARN Spotter reported
Middlesex County Countywide	23	0732EST 0750EST			0	0			Thunderstorm V	Vind (G65)
		verful line of sev ne of storms tore						ph at the (GFDL Laboratory in	Plainsboro Township
Atlantic County Elwood	23	0757EST			0	0			Thunderstorm V	Vind (G52)
NEW MEXICO, Cer	-		ere thundersto	orms uproote	d trees and kr	ocked do	own wires in	Hammon	ton and Mullica Tow	rnships.
NEW MEXICO, Sou		RECEIVED. t ral and Sou	thwest							
Dona Ana County										
4 SE Las Cruces	09	1440MST			0	0			Thunderstorm V	Vind (G50)
NEW MEXICO, Sou	theast									
Lea County Hobbs	09	2028MST			0	0	0	0	Hail (0.75)	
Hobbs			ns moved ac	ross the plair					` ,	isolated storm becam
NEW YORK, Centra	severe	e and resulted in							Ü	
NYZ057	Delav 02	ware 0930EST 1200EST			0	0			Flood	
		eaver Kill at Co							d stage is 10 feet. S g the rapid rise in rive	This was due to a lower level.
Sullivan County North Portion	04	0100EST 0400EST			0	0	500K		Flash Flood	

1 to 3 inches of heavy rain fell in less than 6 hours. Before this rain the ground was already saturated from several inches of rain that fell on September 2nd. The towns of Delaware and Callicoon were hard hit with several roads undermined or with shoulders eroded. Many roads across northern Sullivan County had to be closed during the flooding. Most were opened after daybreak. Stewart Road in the town of Callicoon was washed out. The water created a 10 foot hole in the road.

		Time	Path	Path		ber of	Estim			September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Per Killed	sons Injured	Dama Property	age Crops	Character of Storm	1
NEW YORK, Central NYZ057	Delaw 04	vare 0330EST 1045EST			0	0			Flood	
NYZ057	crest of	f 11.34 feet. Flo hes of rain becom	od stage is	10 feet. The r	iver had no	t fully reco				alls to rise rapidly to a er 2nd. Most of the 1
NYZ009-015>018- 022>025-036>037- 044>046-055>057-062	of rain Flood s North	that fell on Sept stage is 15 feet. ern Onedia -	ember 1st to This floodin Yates - Se	2nd. With all g was enhanceneca - Sout	l of the rain ed by floodi hern Cay	, the East ng upstrea uga - On	Branch of th am on the Be nondaga - S	e Delawa aver Kill Steuben	re River at Fishs Edd and spilling of water	ted from 2 to 4 inches y crested at 15.70 feet. at Pepacton Reservoir. nung - Tompkins - livan
0117 010 0007 007 002	19	0500EST 1800EST			0	0	850K		High Wind (G50))
Yates County Penn Yan	winds. and wi	Most locations	had gusts to common. T	between 40 a	nd 50 mph,	but highe	r elevations	may have	had higher gusts. Sc	t brought with it high attered reports of trees wires fell on cars and /ind (G50)
	Thund	erstorm winds h	lew over a r	onun camner	and several	trees in th	e village of I	Denn Van	The camper was turn	,
Oneida County Rome	27	2000EST	icw over a p	орир сатрег	0	0	10K	Ciii Taii.	Lightning	ilea upsiae down.
NEW YORK, Coastal	Lightn the tov		ower of the S	St Mary's of th	e Assumpti	on church	on West Lil	berty Stree	et. This damaged the	electric bell system in
NEW YORK, East NYZ038-047		RECEIVED. ern Herkimer 1426EST 1430EST	r - Schoha	rie	0	0	10K		High Wind (G60))
	Septem did ma	manents of Hur aber 19. While e mage to blow so	astern New ome trees do	York was spa own in Schoha	ared the wid arie and sou	espread d thern Her	amage experkimer Count	rienced futies. A tre	rther south and west,	ring the afternoon of winds from the storm in Street in Cobleskill Valleys.
Dutchess County Billings	23	0848EST			0	0	5K		Thunderstorm W	/ind (G60)
Ulster County New Paltz	23	0900EST 1200EST			0	0	18K		Flash Flood	
Dutchess County La Grange	23	0905EST			0	0			Funnel Cloud	

A strong cold front produced a line of showers and thunderstorms across eastern New York on the morning of September 23. One of the cells became severe as it moved into Dutchess County. Strong winds from the storm knocked trees and powerlines down at the intersection of Route 55 and Route 82 in the town of Billings. A funnel cloud was reported by a Law Enforcement Officer in the town of La Grange. Heavy rains resulted in flash flooding in the town of New Paltz in Ulster County. Route 32 flooded in that town submerging a taxi at the intersection of Route 32 and Sunset Ridge Road. The driver was not injured. By 4 pm, city firefighters in New Paltz had assisted in pumping 18 flooded basements out. The storms resulted in scattered power outages.

		Time Local/	Path Length	Path Width		ber of sons	Estimated Damage	September 20
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property C	rops Character of Storm
NEW YORK, East								
Dutchess County								
Fishkill	28	0100EST	1.2	75	0	0	10K	Tornado (F1)
	loose little	from the line an over a mile and	d became a s the width var	uper cell that ried greatly be	spawned a te etween 25 ar	ornado of nd 100 ya	F0-f! intensity and a control of the	arly morning hours of September 28. A cell brocross Fishkill, Dutchess County. The length wa damage was to trees, but some wires were blocries were reported with this tornado.
EW YORK, North								
NYZ035	East 19	ern Essex 1239EST 2000EST			0	0	10K	High Wind (G40)
NYZ028	eveni Marit		accompanied	d this system a	and were enl	nanced by	the proximity of	of Friday, September 19th and into Canada f a strong high pressure system over the Canadi vis.
N12020	19	1410EST 2000EST			0	0	10K	High Wind (G40)
Franklin County	eveni		accompanied	d this system a	and were enl	nanced by	the proximity of	of Friday, September 19th and into Canada f a strong high pressure system over the Canadi azy.
Saranac Lake	27	2200EST			0	1	5K	Lightning
								vas injured but survived.
ORTH CAROLINA NCZ007>011-025>028 041-043-078-088	., Cent		e - Vance	- Warren -	Halifax -	Durhan 0	n - Franklin 7.3M	- Nash - Edgecombe - Wake - Wilson Hurricane/Typhoon
	storm Many until count	cane Isabel made tracked northea locations across early evening. N	st passing over the Coastal I I any trees whicle struck a	ver eastern Ha Plain and ever ere uprooted downed tree.	lifax County n back into t falling on v	y. Winds g he Triang ehicles ar	gusts to near Hu le received wind ld homes all acr	und 1 pm on September 18, 2003. The eye of tricane force were recorded over Halifax coun gusts between 50 to 70 mph late in the afterno ross the area. One person was killed in Frank ecombe, Halifax and Wilson counties resulting
Halifax County								
Roanoke Rapids	18	1438EST 1800EST			0	0		Flash Flood
	Flood	ded roads were in	npassable in	Roanoke Rap	ids.			
Edgecombe County								
Tarboro	18	1600EST 1800EST			0	0		Flash Flood
	Town	n Creek flooded	over highway	y 111 near Tai	boro.			
Warren County								
Countywide	18	1800EST 2000EST			0	0		Flash Flood
D 11 G /	Low	lying areas arour	nd the county	were flooded	along with	some road	s.	
Davidson County Lexington	23	0000EST			0	0		Thunderstorm Wind (G65)
	_							Park. A few homes were damaged from the fall
	uces.	. Minor shingle d	amage occur	icu io a day C	aic cemer, a	maciniie S	mop, and a citul	C11.
Davidson County								
Davidson County North Central Portion	23	0000EST 0200EST			0	0	650K	Flash Flood

S	tori	n Data	anu	CHAS	,	Cut			Jiiiciia	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)		ber of sons Injured	Estim Dama Property		Character of Storm	September 200
			(IIIIes)	(1444)	7111104	mjarea	Troperty	Сторь	Character of Storm	
NORTH CAROLINA Forsyth County	, Cent	<u>ral</u>								
Kernersville	23	0130EST 0300EST			0	0			Flash Flood	
G 78 1 G 4	Some	homes were floo	ded.							
Guilford County Greensboro	23	0200EST 0330EST			0	0			Flash Flood	
					artments ne	ar Four Se	easons Mall.	Many ho	mes around Latham	Park were flooded.
NORTH CAROLINA										
Dare County (Hat)Cape Hatteras	04	1700EST			1	0			Rip Current	
NCZ029-044>047- 079>081-090>095-098-	Hurrid Caroli M38IV Mart	cane Fabian, which na coastline. W in - Pitt - Wa	ch was 875 s	miles southeas	st of the Out Western I	er Banks, Dare - G	caused heav	y surf and	near Cape Hatteras.	Swells generated fro the entire Eastern Nor - Duplin - Lenoir
NCZ029-044>047- 079>081-090>095-098- 103>104	Hurric Caroli M38IV Mart Jones	cane Fabian, which na coastline. W in - Pitt - Wa a - Craven - Pa 1800EST	ch was 875 s	miles southeas	st of the Out Western I	er Banks, Dare - G	caused heav	y surf and eaufort - n Hyde	near Cape Hatteras.	che entire Eastern Nor - Duplin - Lenoir
079>081-090>095-098-	Hurric Caroli M38IV Mart Jones 17 19 Hurric eastern near a occurr dollars 12 we significate lov ranged occurr Creek. Main 3 highes Wind 100 m these a the inl	cane Fabian, which has coastline. Win - Pitt - Wa - Craven - Pa 1800EST 2300EST ane Isabel made in Carteret county and east of the sed along the Nor in damage occur er damaged or vicant storm surge ever reaches of the from 6 to 10 fee ed across Core S. Storm surge vall Street in Belhave to water levels redamage was more phoceurred. Hur reas resulting in and counties of its contraction.	landfall ear. Isabel mortorm center th Carolina rred in Dare washed awardamage with e Neuse Rivet across ear ound in easues were aren was floor corded in Se e significant ricane force a loss of eldones, Crave	rly in the after ved north nor experienced Outer Banks e county alone by Eastern Carteret ound 7 feet in ded with 2 to wan Quarter it across Hyde, winds resulte extricity for seen, and Pitt come.	western I islow - East of the Out western I islow - East of the South	operation of the property of t	reene - Bore - Easter 435.6M 18th as a cacross eastern storm surger feet accompliant for the storm of the storm store that it is a storm surger feet accompliant for the storm store that is a storm surger from the store that is a storm surger from the country in surger from the country for the country for the country for the store that is a store that it is a store that	y surf and eaufort - n Hyde 14.3M tegory twe n North Ca e effects. I panied a 6 d busines Craven, punties. Th et at the n els record etween 8 ashington, m 2 to 6 i y where h hhe Outer I Numerous urricane fo ptember 1	near Cape Hatteras. rip currents across rip currents across Western Hyde Hurricane across of arolina during the a Major ocean overw to 8 foot storm sur- sses, several piers, at Beaufort, and Hyde highest storm sur- nouth of Adams Cre- ed near Oriental. A and 10 feet along the and Belhaven. Virt feet occurred across undreds of homes a Banks counties whei- trees and power lin rce winds were also	- Duplin - Lenoir - Duplin - Dup
079>081-090>095-098-	Hurric Caroli M38IV Mart Jones 17 19 Hurric eastern near a occurr dollars 12 we significate lov ranged occurr Creek. Main 3 highes Wind 100 m these a the inl	cane Fabian, which has coastline. Win - Pitt - Wa - Craven - Pa 1800EST 2300EST ane Isabel made in Carteret county and east of the sed along the Nor in damage occur er damaged or vicant storm surge ever reaches of the from 6 to 10 fee ed across Core S. Storm surge vall Street in Belhave to water levels redamage was more phoceurred. Hur reas resulting in and counties of its contraction.	landfall ear. Isabel mortorm center th Carolina rred in Dare washed awardamage with e Neuse Rivet across ear ound in easues were aren was floor corded in Se e significant ricane force a loss of eldones, Crave	rly in the after ved north nor experienced Outer Banks e county alone by Eastern Carteret ound 7 feet in ded with 2 to wan Quarter it across Hyde, winds resulte extricity for seen, and Pitt come.	western I islow - East of the Out western I islow - East of the South	operation of the property of t	reene - Bore - Easter 435.6M 18th as a cacross eastern storm surger feet accompliant for the storm of the storm store that it is a storm surger feet accompliant for the storm store that is a storm surger from the store that is a storm surger from the country in surger from the country for the country for the country for the store that is a store that it is a store that	y surf and eaufort - n Hyde 14.3M tegory twe n North Ca e effects. I panied a 6 d busines Craven, punties. Th et at the n els record etween 8 ashington, m 2 to 6 i y where h hhe Outer I Numerous urricane fo ptember 1	near Cape Hatteras. rip currents across Western Hyde Hurricane/Typl o hurricane across of arolina during the a Major ocean overw to 8 foot storm sur, ses, several piers, at Beaufort, and Hyde highest storm sur, nouth of Adams Cre ed near Oriental. A and 10 feet along the and Belhaven. Virt feet occurred across undreds of homes a Banks counties whee trees and power lin rce winds were also 8th where inland he	- Duplin - Lenoir - Duplin - Dup

Craven County

Havelock 18 1315EST 0 0 Flash Flood

1530EST

The Pine Villa Apartments were flooded with several feet of water in the parking lot.

NORTH CAROLINA, Extreme Southwest

NONE REPORTED.

NORTH CAROLINA, North Coastal

NOT RECEIVED.

NORTH CAROLINA, Northwest and North Central

Stokes County

1.5 NW King 04 0400EST 0 0 Flash Flood 0600EST

Thunderstorms with very heavy rain during the early morning of the 4th, caused Danbury Creek to flood Goff Road, 1.5 miles

northwest of King.

Rockingham County

Eden 04 1245EST 0 0 15K Thunderstorm Wind (G70)

		Time Local/	Path Length	Path Width		sons	Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NORTH CAROLINA	, Nort	hwest and N	orth Cent	tral					
Rockingham County Reidsville	04	1330EST 1530EST			0	0			Flash Flood
	Thunc	lerstorms during	the afternoon	n of the 4th pro	oduced flash	flooding	and damagi	ng winds.	
	Heavy	thunderstorm r	ains during th	ne afternoon of	f the 4th cau	sed Wolf	Island Cree	k to flood	in Reidsville.
		lerstorm winds i k in the parking		the doors off t	he Eden Ma	ll then ble	ew out 17 sk	ylights. C	One of the skylights broke out the window of
NCZ004>006	Stoke 18	es - Rockingh 1330EST 2130EST	am - Caswe	ell	0	0	300K		Tropical Storm
NODELL CAROLINA	mph v	vith gusts near 6							ternoon and early evening at up to 45 to 55 and power lines downed.
<u>NORTH CAROLINA</u> NCZ097-100>101	•	<u>n Coastai</u> er - Brunswic	dz Now U	moron					
1102077-100>101	18	0800EST 1800EST	ck - New H	anover	0	0			Tropical Storm
	Isabel Dama	ye of category 3 's circulation ca	used offshore	e winds gustin	ng near 60 i	nph along	the beache	s of Pend	teras NC during the afternoon. The fringe o er, New Hanover and Brunswick Counties n damaged a roadway on Bald Head Island
Pender County									
Hampstead	22	1830EST 1835EST			0	0			Thunderstorm Wind (G70)
	Stron	g winds blew eig	ght trees down	n on Lee Drive	e, Factory R	oad, and S	Second Stree	et.	
NORTH CAROLINA	, Soutl	<u>hwest</u>							
Jackson County 9 SSE Cashiers	01	0300EST			0	0			Flash Flood
	This		flooding alo						through the early morning hours of the 1st hern part of the county. A landslide closed
Henderson County									
Countywide	22	1600EST 1800EST			0	0			Heavy Rain
Jackson County									
Countywide	22	1600EST 1800EST			0	0			Heavy Rain
Transylvania County									
Countywide	22	1600EST 1800EST			0	0			Heavy Rain
		ge storm system							h Carolina during the early evening, which g developed in Transylvania County after 7
Transylvania County Countywide	22	1800EST			0	0	20K		Flash Flood
	Broad vehic	River rose abo	ve flood stage omerged in fl	e at Rosman ju ood waters. N	ıst after 7 pr umerous mu	n, and ren d slides a	nained in flo lso develope	od throug d. Floodir	eveloped quickly along creeks. The French h 11 pm. At the height of the flooding, som ng developed late in the evening across othe
Rowan County	rormo	and county	, u						
China Grove to	22	2200EST			0	0	5K		Flash Flood
Spencer	banks		portion of h				•		er. A creek near China Grove overflowed it g some damage at a construction site, and
NORTH DAKOTA, C									

		Time Local/	Path Length	Path Width		nber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
NORTH DAKOTA, I	East								
Barnes County	Last								
Valley City	16	2305CST			0	0			Hail (0.75)
Richland County									
2 W Galchutt	17	1040CST			0	0			Hail (0.88)
Grand Forks County									
Grand Forks	17	1530CST			0	1			Lightning
	A wo	oman leaving v	work was stru	ick by lightni	ing as she	walked to	her car. Sl	ne suffere	d no visible injuries, but was taken to the
OHIO E4	emer	gency room for	observation.	She later repo	orted seizure	-like musc	le twitches.		•
OHIO, East Jefferson County									
Bergholz	01	2243EST			0	0	10K		Flash Flood
	Morth	2355EST	varflowed and	flooded State	Pouto 524	Thron noo	nla had ta al	andon the	eir car and swim to safety. No injuries.
Carroll County	Noru	I FOIR CIECK O	verriowed and	1100ded State	Koute 324.	Tinee peo	pie nau to ai	bandon un	en car and swim to safety. No injuries.
Wattsville	01	2244EST			0	0			Flash Flood
	State	2355EST Route 524 floo	oded.						
Harrison County									
Bowerston to Scio	03	1630EST 1800EST			0	0			Flash Flood
Scio	State	Route 151 floo	ded at several	locations bet	ween Scio,	Conotton,	and Bowerst	on.	
OHIO, North									
Stark County East Sparta	26	2045EST			0	0	5K		Thunderstorm Wind (G50)
zust spar a						Ü			
Stark County	Thun	derstorm winds	s downed seve	ral large tree	limbs.				
Canton	26	2122EST			0	0			Hail (0.75)
	Dime	size hail was o	bserved.						
Mahoning County									
North Lima	26	2125EST			0	0	5K		Thunderstorm Wind (G50)
	Thun	derstorm winds	downed a fev	w large tree lii	nbs.				
Summit County Greensburg	26	2125EST			0	0			Hail (0.75)
Greensburg					U	v			Hall (0.73)
Portage County	Penn	y size hail was	observed.						
Suffield	26	2135EST			0	0	3K		Thunderstorm Wind (G50)
	Thun	derstorm winds	downed a co	unla of large t	raa limba				
Hancock County	Hilli	derstorm winds	s downed a co	upie or rarge t	iee iiiios.				
Countywide	26	2220EST			0	0	15K		Thunderstorm Wind (G50)
	Thun	derstorm winds	downed a fev	w trees across	the county.				
Wood County					Ĭ				
West Millgrove	26	2230EST			0	0	25K		Thunderstorm Wind (G50)
			ned several tr	ees southeast	of West Mi	llgrove an	d just to the	northwes	t of Fostoria. A couple of homes sustained
Wood County	some	roof damage.							
Bloomdale	26	2233EST			0	0	3K		Thunderstorm Wind (G50)
	27 Thun	2233EST derstorm winds	downed two	trees					
Erie County	Tiluii	derstorm winds	downed two	uccs.					
Sandusky	26	2300EST			0	0			Hail (0.75)
	Penn	y size hail was	observed.						
Erie County	,				•	^			m 1 4 377 37650
Vermilion	26 27	2320EST 2320EST			0	0	5K		Thunderstorm Wind (G50)
		derstorm winds	downed a fev	w large tree lir	nbs.				

		Time	Path	Path Width		Number of Persons		nated	September 2003		
Location	Date	Local/ Standard	Length (Miles)	(Yards)	Killed	sons Injured	Dam Property	Crops	Character of Storm		
OHIO, North											
Marion County La Rue	26	2320EST			0	0	15K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed three	power poles	near La Rue) .					
Lorain County Amherst	27	0005EST			0	0	2K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed two l	arge tree limb	os.						
Crawford County Bucyrus	27	0015EST			0	0	15K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed sever	ral trees in the	Bucyrus ar	ea.					
Richland County Mansfield	27	0015EST			0	0	3K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed a few	large tree lin	nbs.						
Morrow County Mt Gilead	27	0030EST			0	0	2K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed two	large tree limb	s north of N	Mount Gile	ad.				
Cuyahoga County Shaker Hgts	27	0040EST			0	0	8K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed sever	ral large tree l	imbs.						
Portage County Hiram	27	0100EST			0	0	3K		Thunderstorm Wind (G50)		
	Thun	derstorm winds	downed a cou	ıple of large tı	ree limbs.						
Wayne County Creston	27	0100EST			0	0			Hail (0.75)		
	Penny	size hail was o	bserved.								
Geauga County Chardon	27	0130EST			0	0	6K		Thunderstorm Wind (G50)		
	Thunderstorm winds downed three trees.										
Ashtabula County Geneva	27	0155EST			0	0	4K		Thunderstorm Wind (G50)		
	Thunderstorm winds downed two large trees.										
Trumbull County North Bloomfield	27	0210EST			0	0	3K		Thunderstorm Wind (G50)		
	Thun	Thunderstorm winds downed a couple of large tree limbs.									
Knox County Mt Vernon	27	0215EST			0	0	2K		Thunderstorm Wind (G50)		
OHIO, Northwest	Thun	derstorm winds	downed one t	ree and one la	arge limb.						
	NON	E REPORTED.									
OHIO, Southeast OHZ086	Call	0									
OHZUOU	Galli 02	a 0200EST 1300EST			0	0	20K		Flood		

South a a strong frontal zone, rains of 2 to 4 inches fell in a 24 hour period from midday on the 1st through midday on the 2nd. The heaviest rain amounts ran west to east, across Gallia County, from near the community of Gallia to the Ohio River around Gallipolis. The cooperative observer at Gallipolis measured 3.8 inches of rain. At the end of the event, small streams overflowed and blocked several county roads.

		Time Local/	Path Length	Path Path Length Width		ber of sons	Estimated Damage		September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
OHIO, Southwest OHZ034>035-042-042- 042-046-051-051-055- 062-077	Merc	er - Auglaize	- Darke - I	Delaware - I	Miami - Fr	anklin -	Greene -]	Hamilton	1	
002 017	01	1349EST			0	0	37K		Flood	
	Interst	tate 70 received	one inch, wi	th some locat al creeks rose	ions northwe out of their	est of Day banks, and	ton seeing to d basements	vo to three	d evening. Most areas along and no inches of rain. The heavy rains resulted in Miami, Darke and Franklin cou	ted in
Miami County Brandt	01 Nume	1430EST 1434EST erous trees were	downed.		0	0	3K		Thunderstorm Wind (G50)	
Darke County										
1 S Versailles	01	1440EST 1444EST were downed a	long Ismison	Road	0	0	3K		Thunderstorm Wind (G50)	
Miami County	Tiees	were downed a	iong Jannson	Noau.						
Piqua	01	1445EST 1449EST			0	0	8K		Thunderstorm Wind (G50)	
	Severa	al trees downed	on homes alo	ong Washingt	on Road, cau	ising mino	or damage.			
Delaware County		4 < 0.0 T/GT								
Delaware	01	1600EST 1604EST	1	44	0	0	3K		Thunderstorm Wind (G50)	
OU7062 070×071		trees and a pov								
OHZ062-070>071- 071>072		ne - Butler - \	warren - C	unton			1077		F7 .	
	02	1430EST 2000EST			0	0	10K		Flood	
OHZ063	floodi Masor	tent heavy rain ng of roads and n collapsed in a Apartments in I	several creek construction	area when th	their banks. e heavy rains	A school	bus was stra	anded in hi	ing the afternoon. The heavy rain c gh water near Mason. Kings Mills Re five people were evacuated from the	oad in
OHZ003	03	0930EST			0	0			Flood	
	Heavy	1100EST		iches in the V			se area durir	g the mor	ning. Several roads were flooded, wit	h one
Miami County										
Countywide	26	1930EST 1945EST			0	0	5K		Thunderstorm Wind (G50)	
	Trees	were downed.								
Darke County 1 NW New Weston	26	2200EST 2205EST	0.8	50	0	0	100K		Tornado (F1)	
	blown	ef tornado touch	rby silos sust	ained some d	amage. In t	otal, nine	farm buildi		as destroyed, and another barn had it ed damage from the tornado. Two n	
Shelby County										
Port Jefferson to Maplewood	26	2235EST 2245EST			0	0	150K	. 0 1	Thunderstorm Wind (G90)	
	severa	-		-				•	nouse was blown off of its foundation imum wind speeds were estimated bet	
Logan County	,	F								
Lakeview to Lewistown	26	2250EST 2300EST			0	0	50K		Thunderstorm Wind (G70)	
	over a		t Indian Lake	e HIgh School					ned at a nearby airfield. Fences were beg one that fell on a house, causing	

		Time	Path	Path	Numl		Estimated	September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ions Injured	Damage Property Crops	Character of Storm
OHIO, Southwest								
Warren County Mason to South Lebanon	27	0040EST 0050EST			0	0	4 M	Thunderstorm Wind (G78)
OHZ046-055	sustai of the sever blown home poles	ined major dama e roof were dama ely damaged by n down and con es sustained dam	age along Ma aged and a w flying debri npletely dest age, includin a widesprea	ason-Montgon yall was blown is and a nearb royed. 36 hong five that w	nery Road. In in at the jun by shed was omes suffered were severely	Up to fifty nior high destroyed I roof dat damaged	y windows were blow school as well. Nume 1. The fifty foot mar mage in Kings Mills.	thern part of the county. Several buildings in out at Kings Junior High School. Portions erous buses near the junior high school were quee at Kings Island Amusement Park was In South Lebanon, a small church and 75 ere struck by fallen trees. Trees and power 0 and 100 mph.
O11Z040-033	27	0200EST 0245EST			0	0		Flood
OKLAHOMA, Easte		y rain caused mi	nor flooding	of roads acro	ss northern p	ortions of	f the Columbus metro	area north into Delaware County.
Nowata County	<u>. 11</u>							
1 NE Wann	26	1820CST			0	0	5K	Thunderstorm Wind (G61)
	Thun	derstorm winds	estimated at	70 miles an ho	our blew dow	n trees ar	nd power poles.	
Craig County 11 SE Vinita	26	1930CST			0	0		Thunderstorm Wind (G61)
	Thum	danatama rriada	actimated at	70 miles on he	num blassi tmaas	dorra tru	vo miles west of Vetal	` ,
OKLAHOMA, Extre			estimated at	/O miles an no	our blew trees	s down tw	vo miles west of Ketch	num.
OREMIONIN, EXIL	me bot	<u>atireust</u>						
	NON	E REPORTED.						
OKLAHOMA, Panh		L KLI OKTLD.						
Texas County								
Eva	09	1729CST			0	0		Hail (1.00)
Texas County 6 N Texhoma	09	1730CST			0	0		Hail (0.75)
Texas County 2 S Eva	09	1740CST			0	0		Hail (1.00)
	Sever	e thunderstorms	moved acros	s the central (Oklahoma pa	nhandle d	during the early evenir	ng hours producing large hail.
Texas County	••	4 5 4 (CC C						N (4 - - 0)
3 NW Tyrone	20	1726CST			0	0		Hail (1.50)
Texas County 11 E Guymon	20	1830CST			0	0		Hail (1.00)
Beaver County 5 S Turpin	20	1848CST			0	0		Hail (0.88)
Beaver County Balko	20	1903CST			0	0		Hail (1.00)
Beaver County Balko	20	1945CST			0	0		Hail (1.00)
			producing la	arge hail mov	ed across the	e central a	and eastern sections of	f the Oklahoma panhandle during the early
OKLAHOMA, West		ng hours. entral and So	outheast					
Beckham County Erick	10	1930CST			0	0		Thunderstorm Wind (G52)
£1 IUK	10	1930631			U	U		Thunderstorm willd (G52)
Beckham County 4 ESE Erick	10	2235CST			0	0		Thunderstorm Wind (G50)
	Wind	l was measured b	y the Oklah	oma mesonet.				
Beckham County 3 W Carter	10	2325CST			0	0		Hail (1.50)

		Time Local/	Path Length	Length Width		ber of sons	Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
OKLAHOMA, Wes	tern, Ce	ntral and So	outheast						
Beckham County									
3 W Carter	10	2325CST			0	0			Thunderstorm Wind (G52)
Harmon County									
4 N Madge	10	2354CST			0	0	5K		Thunderstorm Wind (G56)
	A bar	n was damaged.	Four inch tre	e limbs were	also downed	d.			
Beckham County									
Erick	11	0000CST			0	0	50K		Flash Flood

Beckham County 1 N Erick

11 0000CST 0 0 Flash Flood

areas. An elderly man had to be evacuated from his vehicle which was stalled due to high water.

Four semi tractor trailer vehicles hydroplaned into the Interstate 40 median. Two trucks went off the road at 0100 CDT with the other two trucks going into the median at approximately 0450 CDT. Wrecker trucks had difficulty getting to the vehicles due to water running across Interstate 40.

Four to nine inches of rain fell in Beckham county causing many flooding problems. Water went into some businesses in Erick. The baseball field was flooded and fences at the field were downed by moving water. Standing water was at least four feet deep in some

Jackson County 5 NW Duke

 $11 \hspace{0.5cm} 0025 CST \hspace{0.5cm} 0 \hspace{0.5cm} 0 \hspace{0.5cm} 1K \hspace{0.5cm} Thunderstorm \ Wind \ (G52)$

Several tree limbs up to eight inches in diameter were downed.

OKZ021-033>034

Beckham - Harmon - Greer

11 0200CST 0 0 Flood

12 0500CST

The river most affected by the heavy rains was the Elm Fork of the North Fork Red River in Greer, Harmon, and Beckham counties. Moderate flood levels were reached at two river gage sites. At the USGS river gage site near Vinson in Harmon County, a crest of 13.45 feet occurred on the Elm Fork during the early morning hours of September 11, which was 4.45 feet above flood stage. The moderate flooding conditions eventually moved downstream past the river gage site 3 miles north of Mangum on the U.S. Highway 283 Bridge. At this location, the Elm Fork crested during the early morning hours of September 12 at a stage of 24.15 feet, which was 3.15 feet above flood stage.

The floodwaters inundated low-lying fields and some roads along the river, and a blacktop road was closed by high water 4 miles north of Reed in the Jaybuckle area. One residence in the Jaybuckle area was threatened briefly during the late morning of September 11, as floodwaters crept within inches of the house. Residents in the area reported that Elm Fork had reached its highest levels since the catastrophic floods of June 1995.

Beckham County Sayre

11 0330CST 0 0 Flash Flood 0600CST

Sayre City Park was flooded.

Mcclain County Blanchard

1 0400CST 0 0 Flash Flood 0600CST

Heavy rainfall totals of 3 to 5 inches during the early morning of September 11 generated flash flooding in the Blanchard area. A waterway that runs through part of town overflowed flooding yards and nearly entering some nearby homes. Water was seen reaching the top of the foundations of two homes. The flood waters left behind trash and other flood debris.

Precipitation totals of 5 to 9+ inches fell during the late evening hours of September 10 and early morning hours of September 11 over parts of west central and southwestern Oklahoma and the eastern Texas Panhandle. The subsequent heavy runoff from these torrential rains initially produced flash flooding in this area, especially in and near the city of Erick, where the cooperative observer reported a storm total of 8.61 inches, and an unofficial total of 9.45 inches was measured.

The runoff from these heavy rains eventually moved from small creeks and tributaries into the three main rivers in the region, and produced either flooding or bankfull conditions along these rivers. The river most affected was the Elm Fork of the North Fork Red River in Greer, Harmon, and Beckham counties. Moderate flood levels were reached at two river gage sites.

Heavy rainfall amounts of 4 to 5+ inches near Sayre also produced minor flooding along the North Fork of the Red River, as floodwaters overflowed its banks on September 11, briefly covering parts of Sayre City Park and a golf course, and leaving behind trash and other flood debris. Bankfull conditions were also observed farther downstream on the North Fork as the high water traveled through eastern Beckham County, and along the Greer-Kiowa county line to the headwaters of Altus-Lugert Lake.

Bankfull conditions also occurred along the Salt Fork of the Red River in southwestern Oklahoma. Three crests within a foot of flood stage were observed at the USGS river gage site on the Oklahoma Highway 34 Bridge at the city of Mangum on September 11.

		Time Local/	Path Length	Path Width		ber of sons	Estim Dama			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

OREGON, Central and East

Jefferson County

4 W Camp Sherman 01 0000PST 0 0 Wildfire

17 2359PST

The Booth and Bear Butte Fires began on August 19th and burned a total of 91,000 acres. The cause of the fire was determined to be prior lightning strikes which created hot spots that later flared up into a wildfire. Dry conditions and occasionally higher winds contributed to the growth of the fire. Hundreds of residents were evacuated from Camp Sherman. More than 2,000 personnel were involved in the Booth and Bear Butte Fires. The cost of fighting the fire totaled more than 32 million dollars.

Grant County

9 NE Prairie City 05 1400PST 0 0 Wildfire

12 2359PST

The Bull Springs 2 Fire was a lightning sparked fire which burned 1,266 acres. The estimated cost of containing the blaze was \$1.422,000.

OREGON, Northwest

Hood River County

Cascade Locks 02 0600PST 0 0 Wildfire

03 1800PST

The Herman Creek Fire burned 470 acres in and around Cascade Locks. Three structures (none inhabited) burned. About 200 homes were evacuated. No injuries were reported.

OREGON, Southeast

NONE REPORTED.

OREGON, Southwest					
Coos County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	elow.			
Curry County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	elow.			
Douglas County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	pelow.			
Jackson County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	elow.			
Josephine County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	elow.			
Klamath County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			
	See b	elow.			
Lake County					
Countywide	03	1200PST	0	0	Lightning
		2045PST			

See below.

A Red Flag Warning was issued for all of southern Oregon due to a line of thunderstorms approaching from the south containing dry lightning. The line weakened before arrival, but a number of strikes did occur over southern Oregon, just not enough to verify the Red Flag Warning.

Josephine County Takilma

05 0550PST 0 0 Flash Flood 0745PST

See below.

A Flash Flood Warning, effective at the above listed times, was issued for extreme southern Josephine county in southwest Oregon. The warning was based on radar precipitation estimates over an area of favored thunderstorm development. However, it appears that the radar estimates were overdone. Surveys of the RAWS in the area indicated little rainfall accumulation. A few hours after the warning expired, an NWS employee was sent to survey the area. He reported no flood damage or evidence of high waterflow on the creeks, but a person on the edge of the area of heavy rainfall received 1.6 inches of rain overnight. Therefore it appears that 2-3 inches of rain may have fallen in the area that got the most rainfall. However, it appears that the rain rate was low enough to allow most of it to soak into the ground. The NWS employee reported many fire starts as well, indicating that most of the area around the favored area remained relatively dry.

		Time Local/	Path Length	Path Width		nber of rsons		mated mage	September 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
OREGON, Southwest Coos County									
Countywide	12	0632PST			0	0			Wildfire
·	14	1105PST							
Curry County	See b	elow.							
Countywide	12	0632PST			0	0			Wildfire
	14	1105PST							
Josephine County	See b	elow.							
Countywide	12	0632PST			0	0			Wildfire
	14	1105PST							
	See b		was issued ef	fective at the	above time	s for fire w	eather zon	nes 618/619	, which includes nearly all of Curry count
									offshore winds were expected. The strong
									verify the warning. The second night the
	winds	abated but the r	ecoveries we	re poor. Onl	y the Red M	ound RAW	/S in zone	619 verified	d the warning on that night.
		ver, this was a ies were concern		ore event and	l a critical fi	re weather	pattern, s	so the warn	ing was justified as far as the fire weath
ORZ029>031	_			& Eastern	Klamath	County	& Weste	ern Lake	County - Central & Eastern Lak
	Cour					-			
	15	1452PST 0800PST			0	0			Frost/Freeze
	16 See b								
		-		e night of 09/	/15-16 for the	e above zo	nes. Repo	rted lows ra	inged from 27 to 50 degreesso frost like
ORZ029>031		oped in sheltered		e- Eastann	Vlomoth	Country	0- West	um Laka	Country Control & Fostown Lol
UKZ029>031	Cour		Northern 6	x Łastern	Kiamatn	County	& weste	егп Lаке	County - Central & Eastern Lak
	16	0300PST			0	0			Frost/Freeze
	17	0800PST							
	See b		issued for the	e night of 09.	/16-17 for th	e ahove zo	nes Reno	orted lows r	anged from 24 to 35 degrees except for or
		tional warm low							
ORZ029>031			Northern &	& Eastern	Klamath	County	& Weste	ern Lake	County - Central & Eastern Lak
	Cour	•							TD 4/FD
	17 18	1445PST 0800PST			0	0			Frost/Freeze
	See b								
									anged from 24 to 33 degrees except for or
Coos County	excep	tionally warm lo	ow of 47 degre	eesso irost	likely develo	opea this ni	ignta Kill	ing frost in	many areas.
Countywide	21	0635PST			0	0			Wildfire
	23	0610PST							
Curry County	See b	elow.							
Countywide	21	0635PST			0	0			Wildfire
	23	0610PST							
Josephine County	See b	elow.							
Countywide	21	0635PST			0	0			Wildfire
•	23	0610PST							
	See b		effective at th	e above liste	d time was i	ssued for a	n offshore	wind event	with poor overnight RH recoveries for Fi
	Weath	ner zones 618/6	19/Western 6						hine counties, as well as a small portion
	souult	ern Coos county	•						
		-					•	-	Prairie (zone 619, but did not verify at the
Cuppy County	Onion	Mountain RAV	VS (zone 620)). However,	ıt was a sign	aficant offs	shore even	t and the wa	arning was justified.
Curry County Countywide	25	0710PST			0	0			Wildfire
	26	0730PST			v	·			
	See b	elow.							

A Red Flag Warning was issued effective at the above times for fire weather zone 618, which covers the Curry county coast. This warning was for an expected offshore wind event with poor RH recoveries. None of the RAWS stations in the area verified the warning, but Red Mound came close, just barely missing the windspeed criteria but easily verifying the RH criteria.

		Time	Path	Path	Numb		Estimated	September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pers Killed	ons Injured	Damage Property Crops	Character of Storm
OREGON, Southwest								
Douglas County Countywide	26 27 See be	1030PST 1300PST			0	0		Wildfire
Jackson County Countywide	26 27	1030PST 1300PST			0	0		Wildfire
Josephine County Countywide	26 27 See be	1030PST 1300PST			0	0		Wildfire
Klamath County Countywide		Flag Warning,						Wildfire ner zones 620/621/623. This included all
	_		•			_	of Jackson county, far verse with significant wind	western Klamath county, and a very small ls.
<u>PACIFIC</u>		quaw Peak RAV g criteria.	VS came clo	sest to verif	ying the war	ning, but	didn't quite make it.	No other RAWS in the area approached
PACIFIC OCEAN Pt St George Ca To Cp Blanco Or Wwd 20 To	NOT I	RECEIVED.						
60Nm Brookings	in this in the a that tim area.	on radar reports, zone. After the area. The next d ne due to a sudd This was at leas waters and the	warning was ay, the Coast en rise in win t 20 miles av thunderstorm	issued, a rep Guard at No ads and seas way from the s offshore w	port from the orth Bend was (3-4 feet built thunderstorn	Coast Gost Contacted Iding to 8 ms, but it	uard relayed by WFO I ed directly. They indica 3-10 feet). These event appears that a wind sl	Marine Tstm Wind ve times for a line of thunderstorms active EKA indicated that a vessel was in distress ated that several boats were in distress near s occurred near the coast in the Brookings afft boundary did move through the entire y, no deaths or injuries occurred, but there
Cascade Head Or To Cp Shoalwater Wa Wwd 20Nm Clatsop Spit	16	o913PST	associated wi	ui die event.	0	0		Waterspout
PENNSYLVANIA, Ce		spout was reporte	ed 3 miles Wo	est of Seasid	e.			
Franklin County Waynesboro	01	2100EST 2215EST			0	0		Flash Flood
		rain caused rap ry Road, Wayne						o area. Route 997 at Anthony Highway,
Lancaster County Strasburg	15	1031EST 1900EST			0	0		Flash Flood
PAZ066	Lanca 15	aster 1900EST 2100EST			0	0		Flood
	Heavy	rainfall caused t	looding acro	ss eastern po	rtions of Lan	caster Co	ounty. Earlier rainfall le	eft area streams and creeks above bankfull.

Heavy rainfall caused flooding across eastern portions of Lancaster County. Earlier rainfall left area streams and creeks above bankfull. Flooding continued along Pequea Creek near Paradise where stages reached 16 feet, well above the 12 foot flood level. A trailer park was evacuated. Flood waters slowly subsided and the creek was back within its banks by 21:00 EST.

		Time	De al.	Dotk	NT 1	on of	Foties - 4 - 4		
v	ъ.	Time Local/	Path Length	Path Width	Numb Perso	ons	Estimated Damage	Cl	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
PENNSYLVANIA, C PAZ005>006-019- 024>028-033>037-042 045>046-049>053- 056>059-063>066	Mck - Fulto Nort	ean - Potter on - Franklin	- Tioga -	Sullivan -	Southern (Clinton -	- Southern Lyco	flin - Juniata - So ming - Union - So a - Cumberland - Tropical Storm	yder - Montour
	storm	continued on a	northwester 19th, it was n	rly track up t ear Latrobe, F	hrough Virgin PA and headin	nia where	it was downgraded est at about 30 miles	s and Cape Lookout, I to a Tropical Storm per hour. The storm e	, and by early Friday
	sprea	d northwestward ons of the State C	d across the	remainder of	the state thro	oughout tl	he day and evening	hours. Heavy rain w	18th, and continued to ras falling in southern er these southern areas
	far so								s exceeded 3 inches in ern areas saw less than
	occur result of the of Sta lost p	red over a wide ed in hundreds of e CWA, causing ate College's CW	area. After a of reports of t numerous po /A counties, wind gust re	summer of ab rees or tree li ower outages with the mos	ove-normal rambs being kn as well as pro t significant d	ainfall, cre ocked dov perty dan amage ov	eating soft soils and wn. These took down age. Significant treader the lower Susque	damaging gusts of be with trees still in full be n utility poles and power and power line dama hanna region. Statewi neaster County) was a	bloom, the gusty winds wer lines in many parts age was reported in 29 de, 1.4 million people
Snyder County Middleburg	23	0130EST 1030EST			0	0		Flash Flood	
					_	Creek ar	nd Penns Creek. Floo	oding was extensive th	nroughout 4 townships
Adams County Gettysburg	23	0135EST 0815EST			0	0		Flash Flood	
								around 1:30 AM EST	, with numerous road to high water.
York County York	23	0245EST 0807EST			0	0		Flash Flood	
PAZ049>050	close							of York and Hanover nch of Codorus Creek	r. Several Roads were
11207// 000	23	0315EST 0830EST			0	0		Flood	
							eet. The creek excood stage at 8:30 ES		:15 EST on Tuesday
Lancaster County									

1030EST

Heavy rainfall caused flash flooding across much of Snyder County shortly after midnight on the night of the 23 flooding and delice was a flooding and delice was a flooding and delice was a flooding and middle Crook and Mohantange Crook in the wastern as

Lancaster

PAZ050

23

Snyder 23

0429EST

0430EST

water rescues were performed throughout the morning of the 23rd.

Heavy rainfall caused flash flooding across much of Snyder County shortly after midnight on the night of the 23rd. Although flash flooding ended, high water and flooding continued along Middle Creek and Mahantango Creek in the western portions of the county through mid-morning. Numerous reports of road closures and basement flooding were received.

Heavy rain caused Flash Flooding throughout Lancaster County. Numerous roads were closed due to rapidly rising water. At least 10

0

Flash Flood

Flood

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	ons Injured	Property Crops	Character of Storm
PENNSYLVANIA, C	<u>entral</u>							
Dauphin County	22	0.455550			0	0		
Harrisburg	23	0455EST 0807EST			0	0		Flash Flood
	Heavy	y rain caused flo	ooding in Har	risburg, Halit	fax and Eliza	bethville	. Two water rescues v	vere performed. A spotter at Dehart Dam in
DA 7062 065		ern Dauphin Co		4.80 inches of	of rain overni	ght.		
PAZ063-065	23	berland - Yo 0545EST	ГK		0	0		Flood
		1530EST						
								feet. The creek exceeded flood stage at 5:45
PAZ057	Daur		otember 23rd,	crested at 8.4	reet at 12:43	ES1, th	en fell back below flo	od stage at 15:30 EST on the 23rd.
	23	0807EST			0	0		Flood
		1300EST						
								ht on the night of the 23rd. Although flash due to high water, also persisted along with
	the clo	osure of the De	hart Dam Bri					e. Clarks Creek also continued to overflow
PAZ065	its bar York	nks into the earl	y afternoon.					
1112000	23	0807EST			0	0		Flood
		1300EST						
								on the night of the 23rd. Although flash
								due to high water, also persisted. Flooding ors closed flood gates to prevent flooding
		stream from the g roads due to the				ked up a	long Codorus Creek i	n Manchester Township from these actions,
PAZ066	Lanc	-	ne rising poor	icver beiling	tric dam.			
	23	0807EST 1300EST			0	0		Flood
	**				1 67	a .		
								ht on the night of the 23rd. Although flash due to high water, also persisted, including
D.4.70.66	portio	ns of Route 772						ple drove around barricades.
PAZ066	Lanc 23	aster 1545EST			0	0		Flood
	24	0000EST			v	v		11000
	Heavy	y rainfall caused	the Conesto	ga River at La	ancaster to ex	ceed its	flood stage of 11.0 fee	et. The creek exceeded flood stage at 15:45
Padford County	EST o	on Tuesday, Sep	otember 23rd,	crested at 12.	.6 feet at 19:3	80 EST, t	hen fell back below fl	ood stage at 00:00 EST on the 24th.
Bedford County Breezewood	27	1500EST			0	0		Thunderstorm Wind (G50)
	Trees	and wires down	in Breezewo	od				
Bedford County	11003	and whes down	i ili Bicczewo	ou.				
5 S Centerville	27	1630EST 1945EST			0	0		Flash Flood
	**		1 7 1		6 D 16 1			
								flooding occurred about 5 miles south of in their home off of Business Route 220 due
		idly rising flood was closed due			cluded Belde	n Road,	Route 326, Route 869	in New Enterprise, and Evitts Creek Road,
Blair County	WIIICII	was closed due	to a muusnu	c.				
Lakemont	27	1700EST			0	0		Flash Flood
	_	2100EST						
								community of Lakemont, where portions of n ended before 8 pm, significant flooding
Contro Countr		ling closed and		-	•			,,
Contro Correte								

Heavy rains caused flooding in Centre County. Road flooding was reported throughout the county. Hard hit were the intersections of Routes 220 and 550 in Stormstown, and portions of Julian Pike which were washed away by flood waters.

Flash Flood

Centre County

Julian

1820EST

2045EST

27

		Time Local/	Path Length	Path Width		ber of	Estim Dam			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

PENNSYLVANIA, Central

Huntingdon County

Spruce Creek 27 1820EST 0 0 Flash Flood 2045EST

Heavy rain caused flooding across much of Huntingdon county. Roads were flooded in the communities of Robertsdale, Alexandria and Spruce Creek.

PENNSYLVANIA, East

Chester County

Countywide 15 0537EST 0 0 3.4M Flash Flood 16 0447EST

Remnant moisture from Tropical Storm Henri produced copious amounts of rain during the early morning of the 15th across Chester County. The heaviest rain fell from Downingtown south through Kenneth Square. Thunderstorms with torrential downpours moved from south to north across the same areas and produced five to ten inches of rain across the region. The worst flood damage occurred in Downingtown and Kenneth Square. Numerous people were rescued from trapped vehicles and homes. The Red Clay Creek in Kenneth Square had a record crest of 14.99 feet at 9 a.m. EDT on the 15th. The East Branch of the Brandywine Creek in Downingtown had its second highest crest on record at 13.56 feet at 1130 a.m. EDT on the 15th. Flood Stage is 7 feet. Farther downstream, the Brandywine Creek at Chadds Ford had its sixth highest crest on record at 13.72 feet at 557 p.m. EDT on the 15th. Flood stage is 9 feet. The French Creek in Phoenixville had its 4th highest crest on record at 9.70 feet at 1215 p.m. EDT on the 15th. Flood stage is 7 feet. The Valley Creek at Valley Forge had its 4th highest crest on record at 8.94 feet at 530 p.m. EDT on the 15th. Flood stage is 7 feet. The West Branch of the Brandywine Creek at Honey Brook was briefly above its 7 foot flood stage from 619 p.m. through 703 p.m. EDT on the 15th. It crested at 7.03 feet at 630 p.m. EDT. Storm totals included 8.75 inches in Downingtown, 6.57 inches in East Caln Township, 4.43 inches in Modena, 4.12 inches in Thorndale, 3.87 inches in Chadds Ford, 3.59 inches in West Chester and 3.50 inches in Glemmoore

Montgomery County Northwest Portion

Montgomery County North Portion

Flash Flood	0	0	0644EST 0933EST	15
Flash Flood	0	0	1416EST 2310FST	15

Remnant moisture from Tropical Storm Henri produced copious amounts of rain during the morning and again during the laet afternoon and early evening across northern sections of Montgomery County. The heaviest rain fell across Douglass Township, Lower Pottsgrove Township, Upper Pottsgrove Township, West Pottsgrove Township and Pottstown. Doppler Radar storm total estimates reached between 6 and 8 inches. Thunderstorms with torrential downpours moved from south to north across the same areas during the morning and another band of heavy rain moved through during the afternoon. There was widespread poor drainage flooding as well as flooding of creeks and streams. The Manatawny Creek in Pottstown flooded twice on the 15th. It was above its 6 foot flood stage from 744 a.m. through 1033 a.m. EDT on the morning of the 15th. It crested at 7.03 feet at 845 a.m. EDT. It was again above flood stage from 316 p.m. through 657 p.m. EDT. It crested at 6.73 feet at 515 p.m. EDT. The Perkiomen Creek at Graterford was above its 11 foot flood stage from 516 p.m. EDT on the 15th through 1219 a.m. EDT on the 16th. It crested at 12.43 feet at 745 p.m. EDT on the 15th. Flood stage is 11 feet. Farther upstream, the West Branch of the Perkiomen Creek at Hillegass was briefly above its 5 foot flood stage from 354 p.m. through 437 p.m. EDT on the 15th. It crested at 5.02 feet at 4 p.m. EDT. Storm totals included 6.02 inches in Pottstown, 5.06 inches at the Pottstown Airport and 4.70 inches in Palm.

Berks County East Portion

15 0730EST 0 0 Flash Flood 2119EST

Remnant moisture from Tropical Storm Henri produced copious amounts of rain during the morning of the 15th across eastern sections of Berks County. The heaviest rain fell from Douglass Township northeast through Washington Township. Doppler Radar storm total estimates reached between 6 and 8 inches. Thunderstorms with torrential downpours moved from south to north across the same areas during the morning. There was widespread poor drainage flooding as well as flooding of creeks and streams. The Manatawny Creek in Spangville was above its 6 foot flood stage from 522 p.m. through 1019 p.m. EDT on the 15th. It crested at 6.48 at 830 p.m. EDT. Storm totals included 5.23 inches in Bechtelsville, 2.80 inches in Morgantown and 2.70 inches in Hamburg.

Delaware County Countywide

15 0929EST 0 0 Flash Flood 16 0447EST

Remnant moisture from Tropical Storm Henri produced copious amounts of rain during the morning and again during the late afternoon across Chester County and far northwestern Delaware County. Runoff from the upstream heavy rain caused significant flooding along the Brandywine Creek and minor flooding along Chester and Crum Creeks. The Brandywine Creek at Chadds Ford was above its 9 foot flood stage from 1029 a.m. EDT on the 15th through 547 a.m. EDT on the 16th. It crested (sixth highest ever) at 13.72 feet at 557 p.m. EDT on the 15th. Chester Creek in Chester was above its 8 foot flood stage from 629 p.m. EDT through 740 p.m. EDT on the 15th. It crested at 8.15 feet at 7 p.m. EDT. Crum Creek at Newtown Square was above its 6 foot flood stage from 621 p.m. EDT through 928 p.m. EDT on the 15th. It crested at 6.72 feet at 730 p.m. EDT. Storm totals included 3.87 inches in Chadds Ford.

, B	1011	m Data	anu	Onus	uai V	Cau			omena
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numl Pers Killed		Estimat Damag Property		September 2003 Character of Storm
PENNSYLVANIA, Ea	<u>ıst</u>								
Lehigh County Countywide	15	1700EST 2000EST			0	0			Flash Flood
Northampton County	and ea county ranged morni	arly evening acro y and Washingt d between 2 and	oss Lehigh C on Township 6 inches. The band of heav	ounty. The he and Slating hunderstorms by rain moved	eaviest rain fo ton Borough with torrenti I through dur	ell across in the no al downpoing the la	Upper and Loortheast part of ours moved finite afternoon.	ower Mill of the co rom sout The seco	norning and again during the late afternoor ford Townships in the southwest part of the unty. Doppler Radar storm total estimates h to north across the same areas during the and band was too much for area streams to
Northampton County Southwest Portion	15	1730EST 1930EST			0	0			Flash Flood
P. L. C.	and ear Heller moved	arly evening act town Borough. d from south to	ross southwe Doppler Rac north across	stern sections dar storm tota the same are	s of Northam d estimates re eas during the	pton Cou eached be e morning	inty. The hear etween 2 and a g and another	viest rair 4 inches. band of	norning and again during the late afternoon in fell across Lower Saucon Township and in Thunderstorms with torrential downpours heavy rain moved through during the late 1.92 inches in Walnutport Borough.
Bucks County Northwest Portion	15	1735EST 1930EST			0	0			Flash Flood
PAZ054>055-060>062- 067>071	and ea Borou south was w	arly evening acr igh. Doppler Ra to north across to ridespread poor	oss northwes dar storm tot the same area drainage floo	stern sections al estimates r as during the r ding as well a	of Bucks Co eached betwo morning and as flooding of	unty. The een 3 and another b creeks ar	heaviest rain 4 inches. The and of heavy and streams. So	fell acro understor rain mov torm tota	morning and again during the late afternoon oss Milford Township and Trumbauersville rms with torrential downpours moved from ed through during the late afternoon. There ils included 2.94 inches in Perkasie. Bucks - Delaware - Philadelphia
	18 19	1600EST 0500EST			0	0			High Wind (G52)
Chester County Valley Forge	19	0120EST 0151EST			0	0			Flash Flood
PAZ069>071	Buck 19	s - Delaware 0300EST 1800EST	- Philadelp	ohia	0	1			Storm Surge
	floodi weake Leewe lines. This e able to mean	ng in Chester C ened as it tracked ood Islands. Wit It was the worsexceeded the out of funnel water it lower low water	ounty. Isabel of farther inlands gusted unto outage on tages that och to Delaware or. The storm	made landfa and. At one t p to 60 mph : record for PE curred during e River and Ba a surge was 5	Il as a hurrica ime in its lift in Eastern Pe CO Energy the ice storn ay. Moderate 4.43 feet. The	ne near I e cycle, it nnsylvan n southea n of Janu tidal floo rain was	Orum Inlet, Not was a power in and downer astern Pennsy hary 1994. Isanding occurred so not heavy and another than the second so and the second se	orth Card rful Cate d countled lvania. A bel's trac l. In Phila nd the or	ding along the Delaware River and stream blina around 100 p.m. EDT on the 18th and gory 5 hurricane when it was north of the ess numbers of trees, tree limbs and power about 572,425 of its customers lost power. It took into western Pennsylvania and was adelphia, the tide crested at 9.47 feet above nly reported gaged stream flooding was in thus the region was spared from the heavier

Peak wind gusts included 60 mph in Forks Township (Northampton County), 49 at the Philadelphia International Airport and the Reading Regional Airport (Berks County), 47 mph at the Lehigh Valley International Airport and 46 mph at the Pocono Mountains Regional Airport (Monroe County). The Valley Creek at Valley Forge (Chester County) was above its 7 foot flood stage from 220 a.m. through 251 a.m. EDT on the 19th and crested at 7.26 feet at 230 a.m. EDT. Storm totals included 1.50 inches in Valley Forge (Chester County), 1.35 inches in Glenmoore (Chester County), 1.16 inches at the Lehigh Valley International Airport, 1.14 inches at the

Chester County Paoli

23 0540EST 0 0 Thunderstorm Wind (G65)

A powerful line of severe thunderstorms uprooted hundreds of trees in Paoli (Tredyffrin Township). Several homes were damaged and one detached garage was blown off its foundation.

Delaware County Havertown

23 0615EST 0 0 Thunderstorm Wind (G61)

A powerful line of severe thunderstorms uprooted whole trees in Havertown (Haverford Township).

Philadelphia International Airport and 0.81 inches in Mount Pocono (Monroe County).

Location	Date	Time Local/ Standard	Path Length	Path Width		ber of sons	Estima Dama	ge	September Character of Storm	er 200
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
PENNSYLVANIA, E	<u>ast</u>									
Montgomery County										
Narberth	23	0620EST	0.8	100	0	0			Tornado (F1)	
	tornac	do then proceede	d east into N	larberth Boro	ugh and ren	ained on t	he ground fo	r three-qu	orough/Lower Merion Township narters of a mile. Wind damage wa ed wind speed was 75 mph.	
Philadelphia County Philadelphia	23	0625EST 0705EST			0	0			Thunderstorm Wind (G52)	
Proche Country	A pov	werful line of seve	ere thunderst	orms uprooted	d several tre	es in Phila	delphia.			
Bucks County Solebury	23	0640EST			0	0			Thunderstorm Wind (G52)	
	A pov	werful line of sev	ere thunderst	orms uprooted	d trees and d	lowned wi	res in Buckin	gham and	l Solebury Townships.	
Bucks County	•							C	, ,	
Central Portion	28	0050EST 0300EST			0	0			Flash Flood	
		derstorms with h					estimate of	3 to 4 inc	thes across central Bucks County	betwee
PENNSYLVANIA, N	-		sie. Płodding	; or smaller su	leams occur	icu.				
Luzerne County	<u> </u>									
Pittston	03	1205EST			0	0	20K		Lightning	
					Township s	starting a f	ire in the atti	c. The fi	re left a hole in the roof. Water a	nd smo
Lackawanna County	dama	ige was reported	inroughout u	ie nouse.						
Countywide	03	2300EST			0	0	5M		Flash Flood	
	foot e man t Many Rushl	ships of Jermyn, estimated flood s trying to get to h y homes had seve brook Creek. A	Carbondale, tage. The L is car in Car eral feet of w lso in Jermy	Mayfield, an ackawanna Ribondale had a ater in basemon, slabs of c	id Scott. The very went on the latest attacked to the latest and l	ne Lackaw nt of its ba k and died nyn a few pavement	anna River anks in many . Hundreds houses had owere upturners	t Archba towns an of people lebris pus ed, bridge	ne flooding. The worst flooding valid crested at 10.2 feet which is at dicties including Scranton. A 58 were evacuated in the middle of the dinto their basements due to the se washed out, and roads undermark the flood	oove its year o the nigh
Wayne County	wasne	ed out. Some rep	airs to roads	in the county	will take se	verai weei	ks. Many car	s were ca	ught in the flood.	
Central Portion	04	0000EST 0400EST				0				
					0	U	1.5M	20K	Flash Flood	
	that for	3 inches of heavy fell on September aships, and the Bo	2nd. Dybeorough of He	erry creek can onesdale were	caused flash ne out of its the most af	n flooding banks in i fected. A	. The ground nany location few bridges	d was alro ns. Moun were dam	Flash Flood eady saturated due to several inchest Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town r in their basements.	d Orego
•	that for Town have	3 inches of heavy fell on September aships, and the Bo to be replaced by	2nd. Dybeorough of He	erry creek can onesdale were	caused flash ne out of its the most af ads were wa	h flooding banks in the fected. A shed out.	. The ground many location few bridges Many people	d was alro ns. Moun were dam	eady saturated due to several inchest Pleasant, Dyberry, Damascus anaged. One bridge in Oregon Town r in their basements.	d Orego
Towanda to	that for	3 inches of heavy fell on September aships, and the Bo to be replaced by 1820EST	2nd. Dybeorough of He	erry creek can onesdale were	caused flash ne out of its the most af	n flooding banks in 1 fected. A	. The ground nany location few bridges	d was alro ns. Moun were dam	eady saturated due to several inche t Pleasant, Dyberry, Damascus an- aged. One bridge in Oregon Town	d Orego
•	that for Town have to the total of the total	3 inches of heavy fell on September aships, and the Botto be replaced by 1820EST 2030EST erous roads and sugh of Towanda.	2nd. Dybo prough of Ho a new bridg treets floods Numerous	erry creek can onesdale were e. Several roa in the townsh roads were cle	caused flasine out of its the most affads were was 0 tips of Towa osed off. R	h flooding banks in 1 fected. A shed out. 0	The ground nany location few bridges Many people 100K	d was alro ns. Moun were dam had wate	eady saturated due to several inchest Pleasant, Dyberry, Damascus anaged. One bridge in Oregon Town r in their basements.	d Oregonship weets in t
Towanda to Stevensville	that for Town have to the total of the total	3 inches of heavy fell on September aships, and the Bo to be replaced by 1820EST 2030EST erous roads and s	2nd. Dybo prough of Ho a new bridg treets floods Numerous	erry creek can onesdale were e. Several roa in the townsh roads were cle	caused flasine out of its the most affads were was 0 tips of Towa osed off. R	h flooding banks in 1 fected. A shed out. 0	The ground nany location few bridges Many people 100K	d was alro ns. Moun were dam had wate	eady saturated due to several inchet Pleasant, Dyberry, Damascus anaged. One bridge in Oregon Town in their basements. Flash Flood 3 feet of water was on some street.	d Oreginship w
Towanda to Stevensville	that for Town have to the total of the total	3 inches of heavy fell on September aships, and the Botto be replaced by 1820EST 2030EST erous roads and sugh of Towanda.	2nd. Dybo prough of Ho a new bridg treets floods Numerous	erry creek can onesdale were e. Several roa in the townsh roads were cle	caused flasine out of its the most affads were was 0 tips of Towa osed off. R	h flooding banks in 1 fected. A shed out. 0	The ground nany location few bridges Many people 100K	d was alro ns. Moun were dam had wate	eady saturated due to several inchet Pleasant, Dyberry, Damascus anaged. One bridge in Oregon Town in their basements. Flash Flood 3 feet of water was on some street.	d Oreginship w
Towanda to Stevensville Bradford County Wysox	that for Town have to 04 Numer borous short	3 inches of heavy fell on September aships, and the Bo to be replaced by 1820EST 2030EST erous roads and sugh of Towanda. amount of time of	2nd. Dybo prough of Ho a new bridg treets floods Numerous	erry creek can onesdale were e. Several roa in the townsh roads were cle	caused flashe out of its the most affads were wa o ips of Towa osed off. R d.	h flooding banks in 1 fected. A shed out. 0 anda, Ulste oute 6 in 7	The ground many location few bridges Many people 100K r, Wysox, an Fowanda had	d was alro ns. Moun were dam had wate	eady saturated due to several inchest Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town r in their basements. Flash Flood 3 feet of water was on some street water on it. 1 to 2 inches of rain	d Oreginship w
Towanda to Stevensville Bradford County Wysox Bradford County	that for Town have to the borous short to the Golf I	3 inches of heavy fell on September aships, and the Botto be replaced by 1820EST 2030EST errors roads and sugh of Towarda. amount of time of 1830EST ball sized hail.	2nd. Dybo prough of Ho a new bridg treets floods Numerous	erry creek can onesdale were e. Several roa in the townsh roads were cle	caused flashe out of its the most affect where was the control of	h flooding banks in a fected. A shed out. 0 unda, Ulste oute 6 in 7	. The ground many location few bridges Many people 100K r, Wysox, an Towarda had	d was alro ns. Moun were dam had wate	eady saturated due to several inchest Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town in their basements. Flash Flood . 3 feet of water was on some stress water on it. 1 to 2 inches of rain Hail (1.75)	d Oregonship weets in t
Stevensville Bradford County	that for Town have to the town have to the town to the	3 inches of heavy fell on September aships, and the Bot to be replaced by 1820EST 2030EST erous roads and sugh of Towanda. amount of time of 1830EST ball sized hail.	2 2nd. Dybo prough of Ho a new bridg treets floods Numerous on already sa	erry creek can onesdale were e. Several roa in the townsh roads were cl- turated ground	caused flasine out of its the most affads were was the most of Toward osed off. R. d	h flooding banks in a fected. A shed out. 0 unda, Ulste oute 6 in 7	The ground many location few bridges Many people 100K r, Wysox, an Towarda had 5K 50K	d was already was already was already water dam had water dam	eady saturated due to several inchest Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town r in their basements. Flash Flood 3 feet of water was on some street water on it. 1 to 2 inches of rain	d Oregonship w
Towanda to Stevensville Bradford County Wysox Bradford County Stevensville	that for Town have to the force of the force	3 inches of heavy fell on September aships, and the Bot to be replaced by 1820EST 2030EST erous roads and sugh of Towanda. amount of time of 1830EST ball sized hail. 1900EST erous trees fell all approximately	2 2nd. Dyborough of Ho r a new bridg treets floods Numerous on already sa	in the townsh roads were cl- turated ground	caused flashe out of its the most affads were was the most affads were was considered from the flash of the f	h flooding banks in a fected. A shed out. 0 anda, Ulste oute 6 in 7 0 outhern Stonillside. N	The ground many location few bridges of Many people 100K T. Wysox, an Towanda had 5K 50K Evens Towns fearby along	d was alroans. Moun were dam had water dam a foot of this bar a foot o	eady saturated due to several inchest Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town r in their basements. Flash Flood 3 feet of water was on some stress water on it. 1 to 2 inches of rain Hail (1.75) Thunderstorm Wind (G60)	d Oregaship weets in the fell in
Towanda to Stevensville Bradford County Wysox Bradford County	that for Town have to the force of the force	3 inches of heavy fell on September aships, and the Bot to be replaced by 1820EST 2030EST erous roads and sugh of Towanda. amount of time of 1830EST ball sized hail. 1900EST erous trees fell all approximately	2 2nd. Dyborough of Ho r a new bridg treets floods Numerous on already sa	in the townsh roads were cl- turated ground	caused flashe out of its the most affads were was the most affads were was considered from the flash of the f	h flooding banks in a fected. A shed out. 0 anda, Ulste oute 6 in 7 0 outhern Stonillside. N	The ground many location few bridges of Many people 100K T. Wysox, an Towanda had 5K 50K Evens Towns fearby along	d was alroans. Moun were dam had water dam a foot of this bar a foot o	eady saturated due to several inches Pleasant, Dyberry, Damascus and aged. One bridge in Oregon Town r in their basements. Flash Flood . 3 feet of water was on some strees water on it. 1 to 2 inches of rain Hail (1.75) Thunderstorm Wind (G60) mage continued east over Clapper I illside numerous trees were sheared.	d Oregaship weets in the fell in

and 3006. A couple of houses had trees fall on the roofs.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
PENNSYLVANIA, No	rthe <u>a</u>	<u>ist</u>							
Susquehanna County									
Auburn Center to Clifford	04	1930EST 2130EST			0	0	100K	Flash Flood	
Cinioru	Thun		neavy rain ca	used streams	to overfill the	eir banks	onto roads in Auburr	n, Springville, and Cl	ifford. 1 to 2 inches of
	rain f	ell in a short per	iod of time o	n already satu	rated ground				
PAZ038>040-043>044-	Brad	lford - Susque	hanna - W	ayne - Wyo	ming - Lac	ckawan	na - Luzerne - Pik	e	
047>048	19	0500EST			0	0	350K	High Wind (G50)
	1)	1800EST			v	U	330K	Ingii Willa (G50	,
	Remn	ante of hurrican	e Isabel mov	ved up throug	h western Pe	nnevlva	nia and western New	Vork on the 10th	It brought with it high
									cattered reports of trees
	and w	vires down were	common. T						wires fell on cars and
DENINGSZENZANIE A. N.		s, and closed roa	ds.						
PENNSYLVANIA, No Erie County	rthwe	est							
Erie County Erie	27	0230EST			0	0	3K	Thunderstorm V	Vind (G50)
LIK		0200251			v	Ū		Thunder storm v	vina (GDV)
	Thun	derstorm winds	downed a fev	v large tree lin	nbs.				
Crawford County Conneaut Lake	27	0420ECT			0	0	217	Th 1	V: 1 (C50)
Conneaut Lake	27	0420EST			U	U	3K	Thunderstorm V	vina (G50)
	Thun	derstorm winds	downed a fev	v large tree lin	nbs.				
PENNSYLVANIA, W	<u>est</u>								
Lawrence County	0.4	*****							
6 E New Castle	01 02	2220EST 0030EST			0	0		Flash Flood	
		nan Church Rd fl	ooded near I	Route 422.					
Venango County									
Barkeyville	01	2230EST			0	0		Flash Flood	
	Doute	2330EST e 8 flooded just s	outh of Bark	avvilla					
Lawrence County	Koute	e o nooded just s	outil of Dark	eyvine.					
Neshannock Falls to	01	2236EST			0	0		Flash Flood	
Eastbrook	02	0100EST							
Vananga County	Nesh	annock Creek flo	ooded in Hic	kory Twp, alo	ng Neshanno	ck and E	ast Brook Roads.		
Venango County Emlenton Station	01	2236EST			0	0		Flash Flood	
Emiciton Station	V1	2345EST			U	U		riasii rioou	
	State	Route 38 floode	d.						
Butler County									
Chicora	01 02	2300EST 0030EST			0	0		Flash Flood	
		er Road flooded							
Lawrence County									
Neshannock Falls to	01	2300EST			0	0	90K	Flash Flood	
4 E Neshannock Falls	02 Flood	0115EST	use to colla	nse in Neshar	nock Twn	and a ros	ad to collanse hetwee	n Neshannock and V	Vashington Townships
		er court evacuate		pse in resna	mock Twp, t	and a rot	id to contapse betwee	ii i veshamoek and v	asimigton Townships
Clarion County									
Shippenville	01	2300EST			0	0		Flash Flood	
	02 Route	0100EST e 208 flooded.							
Jefferson County	Roun	200 Hooded.							
Sigel	01	2300EST			0	0		Flash Flood	
	02	0100EST							
Clarion County	Road	flooded.							
Strattanville	01	2315EST			0	0		Flash Flood	
~ ** ********	02	0100EST			v	•		100u	
	Road	flooded.							
Lawrence County	0.2	044075			•	•		101 • • • • •	
New Castle	03	0410EST 0615EST			0	0		Flash Flood	
	Marc	er Rd flooded.							

Mercer Rd flooded.

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm
PENNSYLVANIA, W	<u>est</u>							
Lawrence County								
New Castle	03	0510EST			0	0		Flash Flood
	Cedar	0615EST and Lafayette S	Streets floode	d				
Beaver County	Codu	una Barayette E	riceis moode	u.				
Fombell to	09	1555EST			0	0	5K	Flash Flood
2 S Fombell		1730EST				_ ~		
PAZ016-023-030-032			-			n Twp flo	oded. Flood waters ru	unning into house in Fombell.
FAZ010-023-030-032	18	rson - Indiana 2330EST	ı - vv estino	reiana - ra	yene 0	0	8K	High Wind (G52)
	19	0200EST			U	U	OK	Ingii Wiliu (G32)
PUERTO RICO	section		ties. Isabel p	assed over Pi	ttsburgh arou	ind 8 AM	EDT on the 19th. W	ting down trees and utility lines in variou ind gusts from Isabel started after 7 PM or
Southwest								
Lajas	02	1500AST			0	0		Heavy Rain
PRZ001-001	street		s as the move				oon across the central s lasted about 15 min	and interior part of the island causing mine nutes.
1 KZ001-001	03	1030AST	iiity		1	0	30K	Heavy Surf/High Surf
	04	2235AST			•	v	2011	ireavy garryingh garr
		ammed into the			in the Omin	o noney	area to mosteria dei r	Mar was impassable as large waves rolled in
Mayaguez And Vicinity			wan. 1415/11	•	0	0		E IOLI
Mayaguez And Vicinity Moca	05	1850AST	waii. 1413717	•	0	0		Funnel Cloud
Moca	05						ards the town.	Funnel Cloud
Moca Northeast	05 A funi	1850AST			of Moca mo	oving tow	ards the town.	
Moca	05	1850AST					ards the town.	Funnel Cloud Thunderstorm Wind (G52)
Moca Northeast	05 A funi 08	1850AST nel cloud was re 1355AST 1515AST	ported in Las	Marias sector	of Moca mo	oving tow	ards the town. y Roosevelt Roads W	Thunderstorm Wind (G52)
Moca Northeast Ceiba Northeast	05 A funi 08 Intens	1850AST nel cloud was rej 1355AST 1515AST se thunderstorms	ported in Las	Marias sector	of Moca mo 0 unicipality o	oving town 0 f Ceiba by	y Roosevelt Roads W	Thunderstorm Wind (G52) Teather Office.
Moca Northeast Ceiba	05 A funi 08	1850AST nel cloud was re 1355AST 1515AST se thunderstorms 1545AST	ported in Las	Marias sector	of Moca mo	oving tow		Thunderstorm Wind (G52)
Moca Northeast Ceiba Northeast	05 A funn 08 Intens 08 Isolate	1850AST nel cloud was rej 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunde	ported in Las was reported	Marias sector d across the m	of Moca mo o unicipality o o ainfall along	oving toward of Ceiba by 0 the coast	y Roosevelt Roads W 8K tal section of Ceiba	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Severe
Moca Northeast Ceiba Northeast	05 A funn 08 Intens 08 Isolate	1850AST nel cloud was rej 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunde	ported in Las was reported	Marias sector d across the m	of Moca mo o unicipality o o ainfall along	oving toward of Ceiba by 0 the coast	y Roosevelt Roads W 8K	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several
Moca Northeast Ceiba Northeast Ceiba	05 A funn 08 Intens 08 Isolate	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo	ported in Las was reported	Marias sector d across the m	of Moca mo o unicipality o o ainfall along	oving toward of Ceiba by 0 the coast	y Roosevelt Roads W 8K tal section of Ceiba	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several
Moca Northeast Ceiba Northeast Ceiba Northeast	05 A funi 08 Intens 08 Isolate cars w	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST	ported in Las was reported erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in	oving town Of Ceiba by Other coast the coast thersection	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage.
Moca Northeast Ceiba Northeast Ceiba Northeast Northeast Naguabo	05 A funi 08 Intens 08 Isolate cars w 08 Twen	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo	ported in Las was reported erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in	oving town Of Ceiba by Other coast the coast thersection	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage.
Moca Northeast Ceiba Northeast Ceiba Northeast	05 A funi 08 Intens 08 Isolate cars w 08 Twen	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST ty houses were f	ported in Las was reported erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in	oving town Of Ceiba by Other coast the coast thersection	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage.
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity	05 A fund 08 Intens 08 Isolate cars w 08 Twen	1850AST nel cloud was rej 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder were reported flo 1550AST 1730AST ty houses were f 1400AST 1500AST	ported in Las was reported erstorms proc poded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o aninfall along along the in o o overflowing	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s.	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity	05 A funi 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a le	ported in Las was reported erstorms procoded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o overflowin t initial floo	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s.	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada	05 A funi 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50VI	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flow 1550AST 1730AST ty houses were from 1400AST 1500AST year old female pted to make a left	ported in Las was reported erstorms procoded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o overflowin t initial floo	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s.	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity	05 A fund 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50VI Centre	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flow 1550AST 1730AST ty houses were from 1400AST 1500AST year old female pted to make a left ral Interior	ported in Las was reported erstorms procoded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o o overflowin 1 e initial flooehicle.	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at	y Roosevelt Roads W 8K tal section of Ceiba an with road 53 due to 20K s. 7K the Chuco Ramos S	Thunderstorm Wind (G52) Teather Office. Flash Flood causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada	05 A funn 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attempf50VI Centra 18 A ress	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a loe E ral Interior 1500AST	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o overflowin 1 e initial floo ehicle.	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at	y Roosevelt Roads W 8K tal section of Ceiba on with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K	Thunderstorm Wind (G52) Yeather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada PRZ006	05 A funn 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50VI Centre 18	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a loe E ral Interior 1500AST	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o overflowin 1 e initial floo ehicle.	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at	y Roosevelt Roads W 8K tal section of Ceiba on with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K	Thunderstorm Wind (G52) Yeather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada	05 A funn 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attempf50VI Centra 18 A ress	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flo 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a loe E ral Interior 1500AST	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca	of Moca mo unicipality o unicipality o ainfall along along the in o overflowin 1 e initial floo ehicle.	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at	y Roosevelt Roads W 8K tal section of Ceiba on with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K	Thunderstorm Wind (G52) Yeather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada PRZ006 North Central	05 A fund 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50 VI Central A resishome.	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flor 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a left eral Interior 1500AST ident of Barrio for 1056AST 1356AST	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca o river Daguar d away by th ssing in her v	of Moca mo unicipality o unicipality o aninfall along along the in o overflowin 1 e initial floo ehicle. 0 Villalba repo	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at 0 rted stron 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K ag gusty winds that b	Thunderstorm Wind (G52) Teather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh Strong Wind Slew away some zinc roof shingles from him.
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada PRZ006 North Central Arecibo	05 A fund 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50 VI Central A resishome.	1850AST mel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flor 1550AST 1730AST ty houses were f 1400AST 1500AST year old female peted to make a left eral Interior 1500AST ident of Barrio	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca o river Daguar d away by th ssing in her v	of Moca mo unicipality o unicipality o aninfall along along the in o overflowin 1 e initial floo ehicle. 0 Villalba repo	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at 0 rted stron 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K ag gusty winds that b	Thunderstorm Wind (G52) Teather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh Strong Wind Slew away some zinc roof shingles from him.
Moca Northeast Ceiba Northeast Ceiba Northeast Naguabo Mayaguez And Vicinity Aguada PRZ006 North Central	05 A fund 08 Intens 08 Isolate cars w 08 Twen 12 A 50 attemp F50 VI Central A resishome.	1850AST nel cloud was rep 1355AST 1515AST se thunderstorms 1545AST 1730AST ed strong thunder vere reported flor 1550AST 1730AST ty houses were f 1400AST 1500AST year old female pted to make a left eral Interior 1500AST ident of Barrio for 1056AST 1356AST	erstorms procooded near Q	Marias sector d across the m duced heavy r uebrada Seca o river Daguar d away by th ssing in her v	of Moca mo unicipality o unicipality o aninfall along along the in o overflowin 1 e initial floo ehicle. 0 Villalba repo	oving town 0 f Ceiba by 0 the coast attersection 0 g its bank 0 d crest at 0 rted stron 0	y Roosevelt Roads W 8K tal section of Ceiba n with road 53 due to 20K s. 7K the Chuco Ramos S 0.50K ag gusty winds that b	Thunderstorm Wind (G52) Teather Office. Flash Flood Causing flooding along Highway 3. Several poor drainage. Flash Flood Flash Flood Sector of Barrio Piedras Blancas when sh Strong Wind Slew away some zinc roof shingles from him.

Urban flooding was reported in Barrio Obrero, San Jose and Hato Rey.

		Time Local/	Path Length	Path Path Number of Estimated Length Width Persons Damage			September 2003		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured		Crops	Character of Storm
PUERTO RICO									
Northeast									
Fajardo	20	1955AST 2155AST			0	0			Heavy Rain
	Spotte	er from Fajardo	reported urbs	an flooding al	ong road 195	towards	the beach		
Western Interior	Spott	er from rajardo	reported uro	an Hooding ai	ong road 173	towards	the beach.		
Adjuntas	21	1252AST			0	0	2K		Flash Flood
· ·		2100AST							
	A floo	oded house was	reported at B	Barrio Castañe	er, Villa Rica	sector.			
Western Interior									
Lares	21	1330AST			0	0			Heavy Rain
	Down	1430AST ned power lines	and a tree wa	is reported at	I as Campana	s sector	road 454		
San Juan And Vicinity	Down	ica power inies	and a tree wa	is reported at	Lus Cumpune	is sector,	1044 454.		
Trujillo Alto	21	1356AST			0	0	200K		Flash Flood
		2000AST			*	-			
									r banks . Quebrada La Leprosa, La Cepero,
	and B	Blasina. Fourtee	en families we	ere affected by	y flood waters	at Secto	r Hoyo 2, road	845.	
San Juan And Vicinity									
Bayamon	21	1416AST			0	0			Heavy Rain
	A hor	2100AST use was reported	d flooded at I	ardines de Ca	narra urhaniz	ation			
San Juan And Vicinity	Allot	use was reported	u Hooded at 3	ardines de Ca	parra urbaniz	ation.			
Carolina	21	1431AST			0	0	3K		Flash Flood
Curonnu		2000AST			v	Ů			I lush I loou
	Sever	al homes and r	oads were rep	ported floode	d in Saint Jus	st, Villa	Carolina, San	Francisc	co Street. Eleven families were affected at
	Betan	nia Street in Sai	nt Just.						
San Juan And Vicinity									
San Juan	21	1435AST			0	0	3K		Flash Flood
	Savar	2000AST ral homes were	raported floor	lad in Villa N	avaraz Villa	Olimpics	and Rarriada	Icroal	
Northeast	Sever	ai nomes were	reported floor	ica iii viiia iv	cvarcz, vina	Omnpica	i and Darriada	151 ac1.	
Luquillo	21	1443AST			0	0	2K		Flash Flood
zuquiiv		2000AST			v	Ü			110011110011
	Road	992 was report	ed flooded. F	looded homes	were reporte	d in Com	unidad El Hoy	o and at	t Barrio Fortuna.
Eastern Interior									
Cayey	21	1448AST			0	0	2K		Flash Flood
	Elood	2000AST led home along	road 1 at Iour	as T Dinaira					
Northeast	F1000	ieu nome along	10au 1 at Jest	is 1. Fillello.					
Rio Grande	21	1500AST			0	0			Heavy Rain
Rio Gianac	21	2100AST			v	v			neavy Ram
	Sever	ral homes were	reported floo	oded at Barrio	Palmer, Ric	Grande	affecting seve	n famili	ies. The bridge at the Muñiz-Muñiz sector
	along	road 967 at Ba	rrio Tres T co	ollapsed, isola	ting 35 famil	ies.			
Eastern Interior									
Caguas	21	1517AST			0	0	60K		Flash Flood
	Many	2000AST homes and roa	de were repor	ted flooded in	Campe				
Eastern Interior	iviaily	nomes and roa	ids were repor	teu noodeu n	r Caguas.				
Cidra	21	1518AST			0	0	2K		Flash Flood
		2100AST			v	Ü			110011110011
	A hou	use was reporte	d flooded at th	ne urbanizatio	n Ciudad Prii	maveras.			
North Central									
Manati	21	1518AST			0	0			Flash Flood
	A hav	2100AST	d flooded et i	Damia Tiama	Museus El	Homo co.	ston Covenal m	anda ama	highways ware remented fleeded like 605
		use was reporte 643 and higway		Dairio Tierras	s muevas, El	110110 sec	noi. Several re	aus and	I highways were reported flooded like 685,
Central Interior	557, (o io una mgway	,						
Morovis	21	1532AST			0	0			Flash Flood
		2100AST							
		ral homes were			Barahona and	Torrecill	as. Eight fami	lies were	e affected.
PRZ006-006>007	Cent	ral Interior -	Ponce And	Vicinity					
	21	1606AST			0	0			Landslide
	Lond	2100AST	tad along read	1167 ot Lo M	fulita costor :	n Naran:	to		
	Lands	slide was report	icu aiong 10a0	1 101, at La IV.	iuma seciol l	ıı ıvaranıjı	io.		

y rains , landslides and ious flash flooding due AST AST aters of Rio Cibuco wdslides occurred.	Lesser Antilles d flash flooding to heavy rains vater covered a e coast of Narra to the water. Mo	g over man 0 a bridge and 1 agansett. F 57OT 0 own on hwy	o with mid to y municipal o d part of re o High surf a: 0 7 178.	oad 807. Some ever	September 20 Scharacter of Storm Flash Flood pressure located northwest of Puerto Riconts were urban flooding, others like in Truji Flash Flood small streams were reported out of their band Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST as and roads were reported wave entering the Ity rains, landslides and ious flash flooding due AST AST atters of Rio Cibuco with discovered. In man drowned off the point, sweeping him into the stall as a couple of trees and the stall as a few trees down in stall.	Lesser Antilles d flash flooding to heavy rains vater covered a e coast of Narra to the water. Mo	interacted g over man	with mid to y municipal 0 d part of re 0 High surf as 0 7 178.	o upper level low alities. Some ever oad 807. Some s associated with Ho	pressure located northwest of Puerto Rico tts were urban flooding, others like in Truji Flash Flood small streams were reported out of their ban Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST as and roads were reported wave entering the Ity rains, landslides and ious flash flooding due AST AST atters of Rio Cibuco with discovered. In man drowned off the point, sweeping him into the stall as a couple of trees and the stall as a few trees down in stall.	Lesser Antilles d flash flooding to heavy rains vater covered a e coast of Narra to the water. Mo	interacted g over man	with mid to y municipal 0 d part of re 0 High surf as 0 7 178.	o upper level low alities. Some ever oad 807. Some s associated with Ho	pressure located northwest of Puerto Rico tts were urban flooding, others like in Truji Flash Flood small streams were reported out of their ban Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST as and roads were reported wave entering the Ity rains, landslides and ious flash flooding due AST AST atters of Rio Cibuco with discovered. In man drowned off the point, sweeping him into the stall as a couple of trees and the stall as a few trees down in stall.	Lesser Antilles d flash flooding to heavy rains vater covered a e coast of Narra to the water. Mo	interacted g over man	with mid to y municipal 0 d part of re 0 High surf as 0 7 178.	o upper level low alities. Some ever oad 807. Some s associated with Ho	pressure located northwest of Puerto Rico tts were urban flooding, others like in Truji Flash Flood small streams were reported out of their ban Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
cal wave entering the I y rains , landslides and ious flash flooding due AST AST AST atters of Rio Cibuco w dslides occurred. I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	Lesser Antilles d flash flooding to heavy rains vater covered a e coast of Narra to the water. Mo	g over man 0 a bridge and 1 agansett. F 57OT 0 own on hwy	y municipa 0 d part of re 0 High surf ac 0 7 178.	oad 807. Some ever	Flash Flood small streams were reported out of their bar Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
y rains , landslides and ious flash flooding due AST AST aters of Rio Cibuco w dslides occurred. In EST I man drowned off the int, sweeping him into EST and a couple of trees and EST and a few trees down in stal	d flash flooding to heavy rains. evater covered a coast of Narra othe water. Mo	g over man 0 a bridge and 1 agansett. F 57OT 0 own on hwy	y municipa 0 d part of re 0 High surf ac 0 7 178.	oad 807. Some ever	Flash Flood small streams were reported out of their bar Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST AST aters of Rio Cibuco w dslides occurred. n EST I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	e coast of Narra to the water. Mo	0 a bridge and 1 agansett. F 57OT 0 own on hwy	o High surf a. 0 178.	ssociated with Ho 0	Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST aters of Rio Cibuco w dslides occurred. n EST I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	e coast of Narra o the water. Mo	1 agansett. F 0 own on hwy	o High surf a. 0 178.	ssociated with Ho 0	Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
AST aters of Rio Cibuco w dslides occurred. n EST I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	e coast of Narra o the water. Mo	1 agansett. F 0 own on hwy	o High surf a. 0 178.	ssociated with Ho 0	Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
dslides occurred. n EST I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	e coast of Narra o the water. Mo	1 agansett. F 57OT 0 own on hwy	0 High surf at 0 7 178.	ssociated with He o	Heavy Surf/High Surf urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
I man drowned off the int, sweeping him into EST Ed a couple of trees and EST Ed a few trees down in stal	the water. Mo	agansett. F 67OT 0 own on hwy	0 / 178.	0	urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
EST I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	the water. Mo	agansett. F 67OT 0 own on hwy	0 / 178.	0	urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
I man drowned off the int, sweeping him into EST ed a couple of trees and EST ed a few trees down in stal	the water. Mo	agansett. F 67OT 0 own on hwy	0 / 178.	0	urricane Isabel caused him to lose his footi Thunderstorm Wind (G50)
EST ed a couple of trees and EST ed a few trees down in stal	the water. Mo	0 0 own on hwy 0	0 7 178. 0	0	Thunderstorm Wind (G50)
EST ed a couple of trees and EST ed a few trees down in stal	d powerlines do	0 own on hwy 0	178. 0	0	. ,
ed a couple of trees and EST ed a few trees down in stal		own on hwy	178. 0	0	. ,
ed a couple of trees and EST ed a few trees down in stal		own on hwy	178. 0	0	. ,
EST ed a few trees down in stal		0	0		Thunderstorm Wind (G50)
EST ed a few trees down in stal		0	0		Thunderstorm Wind (G50)
ed a few trees down in stal	Batesburg arou				Thunderstorm Wind (G50)
<u>stal</u>	Batesburg arou	and Summe	erland and	Youman streets.	
EST		0	0	1K	Thunderstorm Wind (G50)
lines were blown down	1.				
EST		0	0	1K	Thunderstorm Wind (G50)
re blown down on Ron	nd Street Power	r lines were	knocked (lown as the trees	fell
ie blown down on Bon	ia birect. I owe	i inies were	knocked (iown as the trees	ien.
EST		0	0	1K	Lightning
uck a house and an apa	artment comple	x, causing	some mino	r damage.	
T.C.T.					
EST EST		0	0		Heavy Rain
EST		0	0		Heavy Rain
EST					2200.3 20022
m system produced ve	ery heavy rainfa	all over po	rtions of th	ne Upstate, result	ing in some urban and small stream floodi
	ey, water was u	ip to a foot	deep along	g highway 123. M	fore significant flooding developed in Picke
ii uie evening.					
		0	0		Thunderstorm Wind (G55)
EST		U			
EST	particularly in s		of Walhall	la.	
	particularly in a		of Walhall	la.	
EST	particularly in a		of Walhall	la.	Flash Flood
1 1 1	EST ack a house and an apa EST EST EST EST EST The system produced vo	EST EST EST EST EST EST est in system produced very heavy rainfly evening. Near Easley, water was until the evening.	EST 0 In system produced very heavy rainfall over poly evening. Near Easley, water was up to a foot in the evening.	EST 0 0 EST 0 to the serior of the serior of the system produced very heavy rainfall over portions of the system produced very heavy rainfall over portions of the evening. Near Easley, water was up to a foot deep along in the evening. EST 0 0	cick a house and an apartment complex, causing some minor damage. EST 0 0 EST 0 0 EST 0 0 EST 0 to the Upstate, result by evening. Near Easley, water was up to a foot deep along highway 123. Men the evening. EST 0 0

		Time Local/	Path Length	Path Width	Numbe Perso		Estimated Damage	September 2003
Location	Date	Standard	(Miles)	(Yards)		Injured	Property Crops	Character of Storm
SOUTH CAROLINA,	South	Coastal						
Dorchester County 1 NW Jedburg	08	0845EST 0930EST			0	0		Flash Flood
Berkeley County	Heavy	rain flooded Cy	press Camp	ground Road a	and Grapevin	e Road.		
1 NW Moncks Corner to 1 S Moncks Corner		0905EST 0945EST	ID 4 50 I	IG D . 17.4	0	0	D 1	Flash Flood
SOUTH DAKOTA, Ce	-	rain flooded US and North	Route 52, t	3 Route 1/A	, and Stoney	Landing	g Road.	
Edmunds County 10 NE Ipswich	10	1500CST			0	0		Hail (0.75)
Mcpherson County 4 SE Leola	10	1530CST			0	0		Hail (0.75)
Brown County 8 NW Frederick	10	1600CST			0	0		Hail (0.75)
Clark County 4 S Garden City	17	2130CST			0	0		Hail (0.75)
Codington County 5 NE Wallace	17	2200CST			0	0		Hail (0.75)
Day County 12 SW Waubay	17	2201CST			0	0		Hail (0.88)
Day County 1 N Waubay	17	2245CST			0	0		Hail (0.88)
SOUTH DAKOTA, So	uthea	<u>st</u>						
Jerauld County 9 W Wessington Spgs	17	2058CST			0	0		Hail (0.75)
Brule County Chamberlain	17	2103CST			0	0		Hail (1.00)
Beadle County 9 SW Virgil	17	2118CST			0	0		Hail (0.75)
Beadle County 7 W Virgil	17	2121CST			0	0		Hail (1.00)
SOUTH DAKOTA, W								
SDZ001-013-031>032	Hard 10	ing - Northeri 1149MST 1707MST	1 Meade C	o Plains - P	Pennington 0	Co Pla 0	ins - Haakon 0 0	High Wind (G53)
TENNESSEE, Central	and we	est central South	Dakota. No	rthwest wind	s increased to	30 to 4		nins and strong winds to much of northwest rning and continued through the afternoon. ternoon hours.
Davidson County 11.8 SE Nashville	22	0500CST 0830CST			0	0	83K	Flash Flood
								s banks and came onto the intersection of nad to be rescued from the top of his car.
Davidson County 6 SE Nashville	22	0530CST 1000CST			0	0	•	Flash Flood
Dovidson Com	Hamil	ton Church Pike	was flooded	and impassal	ble.			
Davidson County Nashville	22	0545CST 1000CST			0	0		Flash Flood
	Spotte	r reported a foot	of water at t	he intersection	n of Bell Roa	d and I-2	24.	

		Time Local/	Path Length	Path Width	Per	nber of rsons	Estim Dam	age	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TENNESSEE, Central	[
Davidson County	i								
Nashville	22	0630CST 1000CST			0	0			Flash Flood
	Flood	ding was occurin	g on Thomps	on Lane and	Old Glenn I	Rd. Mill C	reek was out	of its ban	ks.
Maury County									
3 NE Columbia	22	0630CST 1000CST			0	0			Flash Flood
	-		-	Baker Road	and Carters	Creek Rd	. Some moto	orists were	temporarily stranded on several rural roads
D4bfd C	accor	rding to newspap	er accounts.						
Rutherford County La Vergne	22	0630CST			0	0			Flash Flood
La vergue	22	0830CST			U	U			Flasii Flood
	News		f a road close	d in La Vergr	ne due to hi	gh water, a	at Old Nashv	ille Highv	vay, under the railroad underpass.
Rutherford County									
Murfreesboro	22	0630CST 0830CST			0	0			Flash Flood
									s high water on some slabs. High water was
Williamson County	repor	ted at the interse	ction of Old	Nashville Hig	hway and L	okey Ave	nue, at the ra	ulroad ove	erpass.
8.9 NE Franklin	22	0630CST			0	0			Flash Flood
0.7 NE FTankini	22	0800CST			v	U			Flash Flood
	The I	Brentwood YMC	A parking lo	t was flooded					
Davidson County									
13 ESE Nashville	22	0700CST 1000CST			0	0	10K		Flash Flood
	Tulin		as closed and	d barricaded o	due to high	water abo	out 1/2 mile	south of	the intersection of Lebanon Pike and Tulip
									ed a home on Andrew Jackson Parkway in
	Hern	nitage.							
Wilson County									
3 SW Mt Juliet	22	0700CST 1000CST			0	0			Flash Flood
	Abou	at 6 inches of war	ter on several	low spots on	Central Pik	e in Wilso	n County.		
Clay County				1			•		
Countywide	22	0726CST			0	0			Flash Flood
	G1 ·	1200CST	1111		1 1.1				
Dekalb County	Snen	iff's office reporte	ea nign water	on many road	is around tr	e county.			
Alexandria	22	0730CST			0	0			Flash Flood
THE MILLIAN		1000CST			v	v			Tush Toou
	Loca	l Police Departm	ent reported	6 to 12 inches	of water or	roads.			
Dekalb County									
Smithville	22	0730CST			0	0			Flash Flood
	Loca	1000CST 1 Police Departm	ent reported	6 to 12 inches	of water or	roads.			
Macon County									
3 N Lafayette	22	0730CST 1000CST			0	0			Flash Flood
	TDO	T reported 11/2	foot of water	on Shiloh Ro	ad.				
Marshall County									
North Portion	22	0730CST 1000CST			0	0			Flash Flood
	TDO	T placed high wa	ater signs on	roads in the n	orthern part	of the cou	inty.		
Moore County									
Lynchburg	22	0730CST			0	0			Flash Flood
	Sheri	1000CST iff's office reporte	ed a few etrea	ms out of thei	r hanke				
Overton County	SHELL	in s office report	ou a iew suea	ilis out of the	i banks.				
Countywide	22	0730CST			0	0			Flash Flood
•		1200CST							
G G	TDO	T reported high	water on mar	y roads throu	ghout the c	ounty.			
Sumner County	22	0720CCT			Λ	0	1017		Flash Fland
Countywide	22	0730CST 1000CST			0	0	10K		Flash Flood

TDOT reported many roads were closed due to high water in Gallatin, Hendersonville, Bethpage and Westmoreland. In a new subdivision off Harris Road in Portland, water got into a home on Willow Court.

		Time Local/	Path Length	Path Width	Per	nber of rsons	Estim Dam	age		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TENNESSEE, Central	l									
White County	=									
Countywide	22	0730CST 1030CST			0	0			Flash Flood	
	Sheri	ff's office reporte	ed 6 to 12 inc	thes of water o	on many roa	ds around	the county.			
Wilson County										
Mt Juliet	22	0730CST			0	0	20K		Flash Flood	
	Floor	1000CST ding was occurring	ng at the inte	rsection of Ol	d Lebanon l	Dirt Road	and Mt. Juli	et Road V	Water was getting into	a bank and into some
										en canoeing in a Little
G 1 G 1	Leag	ue ball field in M	It. Juliet.							
Grundy County	22	0000000			0	0				
Pelham	22	0800CST 1200CST			0	0			Flash Flood	
	Sheri		ed high water	on many road	ds througho	ut the cour	nty, but Pelh	am was th	e hardest hit due to ro	ad closures.
Wilson County										
4 NW Mt Juliet	22	0810CST			0	0			Flash Flood	
	NWS	0930CST S employee repor	ted Needmor	e Road was cl	losed due to	Shutes Br	anch comin	g out of its	s banks	
Putnam County	11112	, employee repor		o reductivas es	iosea aae to	Silutes Bi		5 041 01 11	, cames	
Cookeville	22	0930CST			0	0			Flash Flood	
	TT: -1-	1200CST	_							
Van Buren County	High	water over roads	S.							
Countywide	22	0930CST			0	0			Flash Flood	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1200CST								
a 1 1 1a .	Sheri	ff's office reporte	ed 6 inches of	f water on ma	ny roads thr	oughout th	ne county.			
Cumberland County	22	1015CCT			0	0			E11- E11	
Crab Orchard	22	1015CST 1200CST			0	U			Flash Flood	
	Heav	y rains produced	l a mudslide	along Intersta	te 40.					
Cumberland County										
Crossville	22	1015CST 1200CST			0	0			Flash Flood	
	Many	y roads were und	er high water	r.						
Fentress County	•	,								
East Portion	22	1030CST			0	0			Flash Flood	
	Sava	1230CST ral roads were ur	der water ac	ross the easter	n part of the	a county i	ncluding All	lordt		
White County	Seve	rai ioaus were ui	idei watei ac	ioss the easter	ii part or un	e county, i	nciuding An	iaiui.		
Sparta	27	1009CST			0	0			Thunderstorm W	ind (G50)
-										
Country of Country	Trees	s were blown dov	wn in the city	•						
Cumberland County Crossville	27	1040CST			0	0			Thunderstorm W	and (C51)
Crossvine	21	1040CST 1042CST			U	U			Thunderstorm vv	iliu (GS1)
									and power lines were o	
		Highway 70 and g U.S. Highway 1							trees were blown dow	n at an industrial park
TENNESSEE, East	aiong	g U.S. Highway	127. The suo	ng winds biev	v down a iai	ge Taco b	en sign and	a large M	CDonaid sign.	
Hawkins County										
Van Hill	27	1415EST			0	0	15K		Thunderstorm W	ind (G55)
C	Trees	were reported do	own on powe	r lines.						
Greene County Jearoldstown	27	1430EST			0	0	9K		Thunderstorm W	ind (G55)
scar olustown		1430231			v	v	711		Thunderstorm **	ma (GSS)
	A few	v trees were repor	rted down in	Jearoldstown.						
Sullivan County	27	1 <i>445</i> POT			Λ	Δ			Heil (0.99)	
Countywide	27	1445EST			0	0			Hail (0.88)	
	Nicke	el sized hail was	reported acro	ss the county.						
Sullivan County					_	_				
Blountville	27	1515EST			0	0	6K		Thunderstorm W	(ind (G55)
	т.		11 ' 1							

Two trees were reported down in Blountville.

~	, 001		0 00==02					nomena
		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage	September 2
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Cro	ps Character of Storm
TENNESSEE, West								
	NON	NE REPORTED						
TEXAS, Central Mason County								
Countywide	11	1645CST 1845CST			0	0	1K	Flash Flood
		derstorms ahead					over Mason cour	nty in the late afternoon and evening of the the county.
Mason County		F		, ,				
8 W Mason	11	1840CST			0	0	2K	Thunderstorm Wind (G61)
Brown County	Stron	ng thunderstorm	winds ripped	shingles off o	f a roof and l	nocked d	own tree limbs.	
Brownwood	14	0430CST			0	0	10K	Flash Flood
		0800CST fall of up to 5 i ling for a short ti		the city of E	Brownwood	causing si	gnificant flooding	g of streets. Some homes also had some r
Mcculloch County	11000	ing for a short ii	me.					
East Portion	14	0800CST 1000CST			0	0		Flash Flood
	Num	erous highways	in the eastern	portion of Mo	cculloch cou	nty had wa	ater over them.	
San Saba County Northwest Portion	14	0830CST			0	0		Flash Flood
Northwest 1 of don		1030CST						
		erous roads in the es occurred.	ne northern a	nd western po	rtions of the	county w	ere under water f	or several hours after rainfall amounts of 3
Mcculloch County 15 NE Brady	25	1744CST			0	0		Flash Flood
10 TtD Drudy		2000CST	ie northeast n	ortion of the c			er for several hour	s after heavy rains.
TEXAS, Central Sou	theast	·	•					s area neavy rains.
TXZ164-177-214- 236>238	Trin	ity - Walker -	Chambers	s - Matagoro	la - Brazoi	ria - Gal	veston	
	01 02	0000CST 1500CST			0	0	63K	Tropical Storm
	Port (O'Connor and F	reeport on th	e last day of	August. Hea	vy rains b	efore and after la	nd poorly defined center moved inland bet undfall resulted in flash flooding across m
		op and move act				o the first	two days of Se	ptember as remnant feeder bands continue
	north rainfa morn	ward into Cham all was over sout ing hours of Sep	bers and por hern Matago ptember 1st.	tions of Liber rda County wh The Corps of	ty Counties. nere an estim Engineers a	Some roa ated 6 to t the Mata	ds were flooded: 12 inches was obsagorda River Loc	on County to across the Bolivar Peninsula in these areas. A secondary area of very h served. The majority of this rain fell in the ks (Matagorda, Matagorda County) report ds and a few homes.
					•	•		maica Beach, 4.75 inches in Freeport, and
Matagorda County	inche	s in Matagorda.	Much of the	rain that occur	red these two	days fell	on extremely sat	urated grounds which lead to the flash flood
Matagorda County	01	0345CST 0730CST			0	0	30K	Flash Flood
	Flood	ding in and arou	nd Matagorda	a, three homes	flooded on	South 60.		
Chambers County East Portion	01	0715CST			0	0	3K	Flash Flood
	High	0845CST water across Hy	vy 124 betwe	en Winnie an	d High Islan	l.		
Galveston County	611	40.000 110	.,					
Countywide	01	0715CST 0845CST			0	0	4K	Flash Flood
	High	water across Hy	vy 87 on the	Bolivar Penin	sula. Street f	looding a	ound FM 518 and	d I-45.

Flash Flood

0

3K

02 0100CST Flooding on some county roads in and around Groveton.

2235CST

Trinity County

Groveton

		Time	Path	Path		nber of	Estimated			September 2003	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pe Killed	rsons Injured	Dam Property	age Crops	Character of Storm		
TEXAS, Central Sout	heast										
Fort Bend County 2 SW Kendleton	02	1108CST			0	0			Funnel Cloud		
Calmatan Carret	Funne	el cloud reported	l at Hwy 59 a	and Lum Road	d.						
Galveston County League City	02	1124CST			0	0			Funnel Cloud		
	Funne	el cloud reported	l between Eg	ret Bay and L	eague City.						
Waller County 2 S Waller	02	1244CST			0	0			Funnel Cloud		
	Funne	el cloud 2 miles	south of Wal	ler or 5 miles	west of Ho	ckley movi	ing northeast	i.			
Washington County Chappell Hill	02	1254CST			0	0			Funnel Cloud		
	Funne	el cloud in Chap	pell Hill near	Brenham off	Hwy 290.						
Fort Bend County 10 W Rosenberg	01	1525CST			0	0			Funnel Cloud		
	Funne	el cloud along H	wy 90 betwe	en Rosenburg	and East B	sernard.					
Harris County 5 NW Hockley	01	1605CST			0	0			Funnel Cloud		
	Funne	el cloud reported	d at Hwy 290	and FM 2920	0.						
Harris County Jersey Village	01	1605CST			0	0			Funnel Cloud		
	Funne	el cloud reported	near Jersey	Village.							
Harris County Katy	01	1605CST			0	0			Funnel Cloud		
	Funne	el cloud reported	l near Katy.								
Harris County Houston	01	1710CST			0	0			Funnel Cloud		
	Funne	el cloud reported	at intersection	on of Westhei	mer and Ad	dicks.					
Harris County 4 NW Missouri City	01	1755CST			0	0			Funnel Cloud		
	Two f	funnel clouds re	ported outside	e of Missouri	City.						
Walker County 2 SW Crabbs Prairie	02	0530CST			0	0	3K		Flash Flood		
		0655CST flowing over F	M 2550 1 mi	le south of FN			and around	Huntsvill			
Brazoria County											
Lake Jackson	04	1416CST 1605CST				0	10K		Flash Flood		
Harris County	•	er-high street fl					Woods subo	livision.			
Jersey Village	04	1651CST	0.2	30	0	0			Tornado (F0)		
Galveston County	Torna	do in Eldridge I	Parkway near	Jersey Villag	ge. No dama	ige reporte	d.				
Crystal Beach	10	1540CST			1	1			Lightning		
	Two 1 M?OT	men struck by lig	ghtning, one	fatality.							
Fort Bend County 7 N Rosenberg	11	1320CST			1	0			Lightning		
/ 14 Austribel g		ning strike, 1 fat	ality. Landsc	aper sought re			he Pecan Gr	ove subdi			
Fort Bend County					Δ.	0	217		Thursday V	Vind (C57)	
Needville	12	0118CST	unad same - 4	200	0	0	2K		Thunderstorm V	vina (G57)	
	Strong	g wind gusts dov	vnea some tre	ees.							

		Time Local/	Path Length	Path Width	Numb Pers		Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	Character of Storm	
TEXAS, Central Soutl	heast								
Matagorda County									
Wadsworth	14	1325CST			0	0		Funnel Cloud	
	Funne	el cloud reported	near the inte	ersection of F	M 521 and H	wv 60.			
TEXAS, Extreme Wes						,			
	NON	E REPORTED.							
TEXAS, Mid - South	11011	L KLI OKTED.							
Bee County									
2 NE Tynan	09	1350CST			0	0		Thunderstorm V	Vind (G50)
	15 no	wer poles blown	down along	Highway 35	Dime size	hail was	also reported		
Live Oak County	13 po	wer poles blown	down along	Tilgilway 55.	7. Dillie size	nan was	aiso reported.		
Oakville	11	1930CST			0	0		Flash Flood	
	A	2100CST	um danatanna	mmoduood loo	alizad 6 to 0	inahaa a	f main in 2 haves maan	Oalyvilla alama Intan	otata 27 The frontess
		of I-37 around Su				inches o	ram in 5 nours near	Oakville along litter	state 37. The frontage
San Patricio County			T						
Ingleside	12	0312CST			0	0		Thunderstorm V	Vind (G72)
	Dama	age was done to	a crane on	a harge alon	o the Intraco	astal Wa	terway See Gulf of	Mexico Marine Zor	e 230 above for more
		nation.	a crane on	a barge alon	g the miraco	astai **a	actway. See Gan of	Wexieo Warme Zor	ic 230 above for more
San Patricio County									
Mathis	12	0345CST 0530CST			0	0		Flash Flood	
	Water		ong S.R. 18	8 off of I-37.	In addition	San Patri	cio Sheriff's office rep	orted 26 in Mathis h	ad water over the road
	Sever	al other roads th	ough the cou	anty were rep	orted as havi	ng minor	flooding, but passable		
Nueces County	10	0400000			0	0		Flash Flass	
Corpus Christi	12	0400CST 0600CST			0	0		Flash Flood	
	Corpu		Depatment r	eported wate	r covering I-3	37, 1 mile	e west of Highway 35	8. In addition severa	l city streets had water
N C	cover	ring portions of th	e roadway.						
Nueces County Port Aransas	12	0400CST			0	0		Thunderstorm V	Vind (G60)
1 02 0 1 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		0500CST							, ,
								oof damage also oc	curred at an apartment
	comp	lex, several home	es and a nigh	tciub. Powei	lines were a	so blown	down.		
									morning hours of the
									ht at the coastline and
									cross San Patricio and a new record for daily
							producing wind gusts		
San Patricio County		0012.00							
1 NW Gregory	14	0913CST			0	0		Funnel Cloud	
San Patricio County									
1 S Edroy	14	0937CST	0.3	30	0	0		Tornado (F0)	
	NWC	Storm Survey or	maludad a E	O tornado bri	afly touched	down inc	t couth of Edrov knoc	kad down savaral no	wer poles and damaged
		-foot long tin cat			•	down jus	t south of Editoy, knoc.	ked down several po-	wer poles and damaged
Nueces County		C							
Corpus Christi	17	1620CST			0	0		Flash Flood	
	Verv	1745CST heavy rainfall ox	er city of Co	orpus Christi	produced wat	er over th	ne road at Rand Morga	n Road and also near	the West Campus Del
	-	•	•				us other city streets.		
Bee County	40	122 - 00-				•		F11	
Central Portion	18	1335CST 1530CST			0	0		Flash Flood	
	Heav		oss Central E	Bee county pr	oducing flash	flooding	g along Hwy 59, 888 a	nd 202 near Beeville	
Goliad County									
North Central Portion	18	1340CST 1530CST			0	0		Flash Flood	

		Time	Path	Path	Nur	nber of	Estin	nated	September 2003
Taradian	Dete	Local/	Length	Width		rsons	Dan	-	•
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, Mid - South									
Refugio County									
Refugio	18	1340CST			0	0			Flash Flood
	Незу	1500CST y rainfall resulte	od in several s	treets floode	d in the city	of Refugio			
San Patricio County	Heav	y faiman fesuite	a iii severai s	ilects Hoode	a in the city	oi Keiugio	•		
Aransas Pass	18	1520CST			0	0			Flash Flood
		1730CST							
N G	Heav	y rainfall produ	ced widesprea	nd street flood	ling in Aran	sas Pass.			
Nueces County	18	1522CCT			0	0			Flash Flood
Countywide	10	1532CST 1800CST			U	0			Flasii Flood
	Heav		ced wideprea	d street flood	ling in Corp	us Christi.	Very heay	rainfall fe	ell in southern Nueces County in the city of
	Bisho	op. 4 to 5 inches	s of rainfall w	ere reported	in Bishop.				
Kleberg County	40	1 < 2 < C/C							
Central Portion	18	1636CST 1730CST			0	0			Flash Flood
	Flood	ding along FM	772 and East	CR 1040.					
TXZ232	Bee	<i>e e</i>							
	18	1700CST			0	0			Flood
	19	0215CST	151 1 1	1 10111		1.			
		y rainfall on the Aransas River n	_			_	ood stage 1	3 feet)	
TXZ234	Victo		an skidillore	cresicu at 10	.)4 icci on i	iic 17tii. (11	iood stage 1	3 icci)	
	19	0330CST			0	0			Flood
	21	2115CST							
		y rainfall over S			-				
TXZ243		Guadalupe Rive	r at Dupont c	rested at 20.9	9 feet on th	e 19th. (flo	ood stage 20	feet)	
1 AL243	Nuec 19	0545CST			0	0			Flood
	25	0945CST			v	U			Flood
		y rainfall over S			-				
WY/7444		Nueces River at	Bluntzer cres	ted at 24.19 f	feet on the 2	3rd. (flood	stage 18 fe	et)	
TXZ231	Live								771 1
	20 21	0000CST 1700CST			0	0			Flood
		y rainfall over S	South Texas o	n the 17th th	rough the 19	th led to ri	ver flooding	ζ.	
	The A	Atascosa River 1	near Whitsett	crested at 26.	.40 feet on tl	ne 21st. (fle	ood stage 20) feet)	
TXZ243	Nuec								
	23 25	0545CST 2015CST			0	0			Flood
		y rainfall over S	South Texas o	n the 17th th	rough the 19	th led to ri	ver flooding	σ.	
		Nueces River at							
TEXAS, North									
Leon County									
7 S Buffalo	04	1920CST			0	0			Thunderstorm Wind (G52)
Young County									
Graham	11	0744CST			0	0			Flash Flood
		1044CST							
	Rainf	fal up to 4.12 in	ches resulted	in street flood	ding across (Graham.l			
Jack County		1024000							w
Jacksboro	11	1024CST 1324CST			0	0			Heavy Rain
	Heav	y rains of up to	4 inches caus	ed minor stre	et flooding i	n town, clo	sing some s	treets for a	a few hours.
Parker County					_		-		
Peaster	11	1237CST			0	0			Flash Flood
	Elech	1537CST a flooding occur	rad at Uighru	ov 020 and D	ery Crook				
Tarrant County	Fiasii	i nooding occur	ied at mighwa	ay 920 and D	Ty Cleek.				
North Richland Hills	11	1305CST			0	0			Flash Flood
		1405CST							
. . ~	Inters	section of Precir	ct Line Road	and Kirk Str	eet barricade	ed.			
Parker County	4.5	1015000				^			
Millsap	11	1315CST 1415CST			0	0			Flash Flood
	Flash	flooding report	ed by a mail	courier.					
		5 10POIT	/ " " " " " "						

	Lo		Time Path Path Local/ Length Width			Number of Persons Killed Injured		ated age		September 2003	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm		
TEXAS, North										,	
Tarrant County											
Ft Worth	11	1505CST			0	0			Flash Flood		
		1605CST									
	There	was a high wat	er rescue in s	outh Ft. Wor	th.						
Dallas County											
Dallas	18	1554CST			0	0			Flash Flood		
	Intere	1654CST tate 635 closed	at Interctate 7	5 due to floo	ding in Nort	h Dallac					
Mclennan County	mers	tate 033 closed	at Interstate /	3 due to 1100	ding in Non	iii Daiias.					
China Spg	18	1711CST			0	0			Flash Flood		
отта орд		1811CST			· ·	v			111011111100		
	The I	OPS reported fla	sh flooding.								
Tarrant County											
Ft Worth	18	1847CST			0	0			Flash Flood		
		1947CST									
T	Wate	r was reported o	ne foot deep	on Hulen Str	eet in southw	vest Ft. Wo	orth.				
Tarrant County	10	1000.000				0	1077				
Mansfield	18	1900CST 2200CST			0	0	10K		Flash Flood		
	47 in	ches fell in thre	e hours causir	ng flooding ir	ı low lying a	reas and cl	losing some	streets			
Hamilton County	,		o mound cuudi	.g .100 u g .1	1 10 W 17111g ti	ious una o	oomg oome	ou cous.			
Hico	18	1925CST			0	0			Flash Flood		
		2025CST									
	Sheri	ffs office report	ed four to five	e inches of ra	in with flood	ling in Hic	o, and on FI	M 1602 ne	ar Highway 281.		
Hood County											
Granbury	18	2000CST			0	0	15K		Flash Flood		
	NI	2300CST	1		- 575 :1	- f-11	- 41				
Hood County	Nume	erous roads wer	e ciosed as ne	avy rain up t	o 5.75 inche	s ien acros	s the county	•			
Hood County Tolar	18	2106CST			0	0	10K		Flash Flood		
Total	10	2206CST			U	U	101		Flash Flood		
	Sever	al homes were t	looded in Tol	lar.							
TEXAS, North Panha	andle										
Hartley County											
2 E Channing	07	1530CST			0	0			Hail (1.00)		
Moore County											
2 W Four Way	07	1600CST			0	0			Hail (1.00)		
M C											
Moore County	0=	1.025.000							E1 1 E1 1		
3 S Bautista Station	07	1635CST 1800CST			0	0			Flash Flood		
	Exter	sive flooding re	eported on Sta	ate Highway	354 and Far	m to Mark	et Road 220	2.			
Moore County	Later	isive mooding re	ported on bu	ac mgmay	55 r una r un	in to mark	ct Roud 220	2.			
Dumas	07	2031CST			0	0			Flash Flood		
		2200CST									
		flooding report									
										ring the early evening	
TT 4 C 4	hours.	Severe thunder	storms also p	roduced hail	across the no	orthwester	n Texas pan	handle dui	ring the late afternoor	hours.	
Hartley County	00	1.530.CCT				0			TT 11 (1 00)		
1 S Channing	09	1520CST			0	0			Hail (1.00)		
Hartley County											
Channing	09	1520CST			0	0			Hail (0.75)		
Chammig	0,7	1320031			U	U			Han (0.75)		
Hartley County											
Channing	09	1530CST			0	0			Hail (0.75)		
· ·	•				-	-			/		
Hartley County											
Channing	09	1531CST			0	0			Hail (0.75)		
Hartley County					_	_					
2 N Channing	09	1545CST			0	0			Hail (0.88)		

		Time Local/	Path Length	Path Width	Pe	nber of rsons	Estim Dam	age	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, North Panha Hartley County 5 SE Dalhart	<u>ndle</u> 09	1625CST			0	0			Hail (1.00)
Oldham County Vega	09	1629CST			0	0			Hail (0.88)
Oldham County Vega	09	1640CST			0	0			Hail (0.75)
Hartley County Channing	09	1700CST			0	0			Hail (0.88)
Hartley County 1 S Channing	09	1719CST 1745CST			0	0	5K		Thunderstorm Wind (G52)
Hartley County				s reported blo	wn down by	the high v	winds causir	ng two hun	dred and seventy-two homes in the town of
Channing	09	1725CST			0	0			Hail (1.00)
Hartley County Channing	09	1730CST			0	0			Hail (1.75)
Hartley County Channing	09	1730CST			0	0			Thunderstorm Wind (G52)
Hartley County 2 E Channing	09	1800CST 1900CST			0	0		15K	Flash Flood
Oldham County	Exten	sive flooding to	fields report	ed along State	Highway 3	354.			
3 SE Boys Ranch	09	1830CST 1930CST	f han ditahaa t	huaa ta fayu f	0	0 n o Form to	Moultot Do	od 1061	Flash Flood
Hartley County (Dht)Dalhart Muni Ar	09	sive flooding o	i bai unches t	inee to four fe	0	0 0	Market Koa	au 1001.	Thunderstorm Wind (G54)
Hartley County 2 E Channing	09	2032CST			0	0			Hail (1.00)
Hartley County 2 E Channing	09	2032CST			0	0			Thunderstorm Wind (G52)
Lingsomb Country		e thunderstorms ng from the late					of the Texas	panhandle	with large haildamaging winds and flash
Lipscomb County Booker	10	1543CST			0	0			Hail (0.88)
Ochiltree County 8 NE Twichell	10	1545CST			0	0			Thunderstorm Wind (G52)
Ochiltree County 8 NE Twichell	10	1640CST			0	0			Hail (0.75)
Wheeler County 7 E Kellerville	10	1755CST			0	0			Hail (0.88)
Collingsworth County 2 W Dozier	10	1840CST			0	0			Thunderstorm Wind (G56)
Colling	Trees	were reported b	olown over by	the high win	ds.				
Collingsworth County 7 NW Dozier	10	1846CST			0	0			Hail (1.00)

		Time Local/	Path Length	Path Width		ber of sons	Estim Dama		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, North Panha	ndle								
Wheeler County									
2 S Lela	10	1846CST			0	0			Hail (1.00)
Donley County									
3 SW Howardwick	10	2050CST			0	0			Hail (0.75)
Wheeler County									
Twitty	10	2115CST			0	0			Flash Flood
·		2215CST							
~ ~	Wate	er was reported o	ver the roadw	ay along U.S	. Highway 8	3.			
Gray County	10	2121 CCT							771 J 771 J
8 W Mc Lean	10 11	2121CST 0200CST			0	0			Flash Flood
		a flooding of the	underpass wa	s reported of	Interstate 40	at mile n	narker 136.		
Wheeler County		Ü	1	1					
Shamrock	10	2300CST			0	0			Flash Flood
	11	0200CST							
				n of Shamroc	k where a t	wo mile s	tretch of U.S	S. Highwa	ay 66 was underwater and numerous streets
Donley County	were	completely unde	erwater.						
Clarendon	10	2355CST			0	0			Flash Flood
Ciurchaon	11	0300CST			v	v			I Mon I Took
		er was reported c							
									sections of the Texas panhandle during the
		noon and into the andleno damag					i down by t	he high v	winds over the extreme southeastern Texas
TEXAS, Northeast	painia	andieno damag	e was reported	u. A150110 11	ijuries were	reported.			
1122715, 1101 theast									
	NON	E REPORTED	•						
TEXAS, South									
	NOT	RECEIVED.							
TEXAS, South Centra		RECEIVED.							
Atascosa County	<u>a1</u>								
South Portion	02	0730CST			0	0	5K		Flash Flood
South I of tion	02	0900CST			v	v			I Mon I Took
									cional storms developed on the morning of
									Atascosa County varied from 1 to 2 inches,
T	with	isolated totals to	near 4 inches	. Damage wa	as limited to	roads near	r low water o	crossings.	
Lavaca County North Portion	02	OROOCET			0	0	5K		Flash Flood
North Portion	02	0800CST 1000CST			U	0	3K		Flash Flood
	Raint		er 1 had alrea	dy saturated	the soils ov	er Lavaca	and DeWit	t Countie	s. Widespread showers and thunderstorms
	redev	veloped on the n	norning of Se	ptember 2, pr	oducing an	additional	1 to 2 inch	es of rain	, with isolated totals to 4 inches, across the
					orth of a lin	e from Yo	orktown to C	Cuero to Y	Yoakum to Shiner to Hallettsville. Damage
D WILL CO.	was l	limited to roads i	near low water	r crossings.					
De Witt County	0.2	001 F.CCT			0	0	FIZ		
North Portion	02	0815CST 0945CST			0	0	5K		Flash Flood
	Raint		er 1 had alrea	dy saturated	the soils ov	er Lavaca	and DeWit	t Countie	s. Widespread showers and thunderstorms
									, with isolated totals to 4 inches, across the
					orth of a lin	e from Yo	orktown to C	Cuero to Y	Yoakum to Shiner to Hallettsville. Damage
Ataganas Carrid	was l	limited to roads 1	near low water	crossings.					
Atascosa County	02	1120CCT			Δ		1017		Floch Flood
South Portion	03	1130CST 1300CST			0	0	10K		Flash Flood
		the soaking rain							nties were generally saturated. As additional and continued into the mid afternoon. This

After the soaking rains of September 1 and 2, soils over Atascosa, DeWitt and Lavaca Counties were generally saturated. As additional rainfall developed in the late morning of September 3, flash flooding developed very quickly and continued into the mid afternoon. This time the heaviest rainfall was over the southern parts of Atascosa and DeWitt Counties and over the western part of Lavaca County, where general 1 inch rainfall was reported with isolated totals to 3 inches in Atascosa and Lavaca Counties and 4 inches in DeWitt County. Flash flooding spread across all of the 3 counties. Damage was reported only to roads and bridges.

		Time Local/	Path Length	Path Width		ber of	Estimated Damage			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Killed Injured		Crops	Character of Storm	

TEXAS, South Central

Lavaca County Countywide

03 1230CST 1430CST 0

10K

10K

100K

Flash Flood

After the soaking rains of September 1 and 2, soils over Atascosa, DeWitt and Lavaca Counties were generally saturated. As additional rainfall developed in the late morning of September 3, flash flooding developed very quickly and continued into the mid afternoon. This time the heaviest rainfall was over the southern parts of Atascosa and DeWitt Counties and over the western part of Lavaca County, where general 1 inch rainfall was reported with isolated totals to 3 inches in Atascosa and Lavaca Counties and 4 inches in DeWitt County. Flash flooding spread across all of the 3 counties. Damage was reported only to roads and bridges.

De Witt County Countywide

03 1300CST 1500CST 0

Flash Flood

After the soaking rains of September 1 and 2, soils over Atascosa, DeWitt and Lavaca Counties were generally saturated. As additional rainfall developed in the late morning of September 3, flash flooding developed very quickly and continued into the mid afternoon. This time the heaviest rainfall was over the southern parts of Atascosa and DeWitt Counties and over the western part of Lavaca County, where general 1 inch rainfall was reported with isolated totals to 3 inches in Atascosa and Lavaca Counties and 4 inches in DeWitt County. Flash flooding spread across all of the 3 counties. Damage was reported only to roads and bridges.

Bexar County Countywide

05 1230CST 1430CST 0

Flash Flood

After several days of widespread general showers, soils were generally saturated across South Central Texas. On September 5, additional rainfall developed from the southern part of Bandera County across the Bexar and Atascosa Counties and into the western part of Wilson County. Repeated showers and thunderstorms produced general rainfall over Bexar County of 1 to 2 inches, with isolated totals of up to 4 inches. San Antonio reported numerous road closures and high water rescues from vehicles. Damage was limited to roads, bridges, and vehicles.

Bandera County South Portion

05 1400CST 1630CST 0 10K

Flash Flood

After several days of widespread general showers, soils were generally saturated across South Central Texas. On September 5, additional rainfall developed from the southern part of Bandera County across the Bexar and Atascosa Counties and into the western part of Wilson County. Repeated showers and thunderstorms produced general rainfall of 1 to 2 inches over the southern part of the county, with isolated totals of up to 4 inches in the southwest part. Damage was limited to roads and bridges.

Atascosa County Countywide

05 1500CST 1700CST 0 10K

Flash Flood

After several days of widespread general showers, soils were generally saturated across South Central Texas. On September 5, additional rainfall developed from the southern part of Bandera County across the Bexar and Atascosa Counties and into the western part of Wilson County. Repeated showers and thunderstorms produced general rainfall over county of around 1 inch, with isolated totals of up to 4 inches in the south part of the county. Damage was limited to roads and bridges.

Wilson County West Portion

05 1530CST 1700CST 0

Flash Flood

After several days of widespread general showers, soils were generally saturated across South Central Texas. On September 5, additional rainfall developed from the southern part of Bandera County across the Bexar and Atascosa Counties and into the western part of Wilson County. Repeated showers and thunderstorms produced general rainfall around 1 inch in the western part of the county, with isolated totals of up to 4 inches. Damage was limited to roads and bridges.

Llano County 3 W Buchanan Dam

11 1635CST

0 50K

Thunderstorm Wind (G60)

Severe thunderstorms winds estimated at 60 knots blew down power lines in eastern Llano County.

Llano County East Portion

11 1700CST

0 0 3K Flash Flood

10K

Late on September 11, in advance of an upper level disturbance approaching from the west, a line of thunderstorms formed west of Llano and moved through the county. Storms produced a general 1 to 2 inch rainfall with isolated totals to near 4 inches northwest of Llano. Lower Colorado River Authority personnel reported creeks out of banks in the eastern part of the county as a result of the heavy

Hays County South Portion

11 2130CST 2230CST

3K Flash Flood

Late on September 11, the line of showers and thunderstorms that had formed over the Hill Country moved into the IH35 corridor. Heavy rain fell briefly from the southern part of Hays County across much of Comal County. The storm line produced a countywide1inch rain, with 2 inches near San Marcos. Brief flash flooding was reported in San Marcos with damage limited to streets and roads.

		Time Local/	Path Length	Path Width	Numb Perso		Estim Dama		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, South Centr	ral								
Comal County East Portion	11	2200CCT			0	0	5K		Flash Flood
East Portion	11	2200CST 2300CST			U	U	3 K		riasii riood
	Heav 1 inch	y rain fell briefl n rainfall, with 3	y from the so inches just	outhern part o west of New	f Hays Coun Braunfels. E	ty across rief flas	s much of Co sh flooding w	omal Cour as reporte	ill Country moved into the IH35 corridor. tty. The line of storms produced a general d across New Braunfels as streets became streets and roads.
Val Verde County			rr					F	
Del Rio	11	2212CST 2230CST			0	0	20K		Thunderstorm Wind (G60)
		Val Verde Count outhern part of D		Department rep	ported power	lines blo	own down by	severe th	understorm winds estimated at 60 knots in
TEXAS, South Panh									
TXZ021>044									Floyd - Motley - Cottle - Cochran -
	01	0000CST	k - Crosby	- Dickens -	King - Yoa 0	kum - '	Terry - Lyı	ın - Garz	za - Kent - Stonewall Drought
	30 The l	2300CST	ht that redev	eloned across	the South P	lains es	xtreme south	ern Panhai	ndle, and Rolling Plains in July continued
	throu avera meas	igh September. ige the region ex	A few areas perienced and infall amoun	s received beauther abnormates that were	neficial rainfa ally dry mont almost two i	all from n. The P nches be	isolated thus NWS coopera elow normal	nderstorms ative obser for the m	s that developed during the month but on ving stations across the South Plains region tonth. Thus, dry soil moisture conditions
		e details, includi	ng rough est	imates of cro	p damage, w	vill be in	ncluded in la	nter month	s after the extent of the drought is better
Hockley County 3 W Whitharral	07	1640CST			0	0		150K	Hail (1.00)
Hockley County 1 E Sundown to 2 E Sundown	07	1725CST 1730CST			0	0		1.5M	Hail (2.50)
2 L Suldown	Hail	up to tennis ball	size severely	damaged nea	rly 8000 acre	s of cott	on and 1000	acres of pe	eanuts.
Hockley County									
1 E Sundown to 2 E Sundown	07	1725CST			0	0	200K		Thunderstorm Wind (G70)
Hockley County	Stron	ng thunderstorm	wind estimate	ed at around 8	0 mph caused	l major (damage to the	e roof of a	petroleum plant.
Sundown	07	1800CST			0	0	25K		Thunderstorm Wind (G57)
D. D. G		ng thunderstorm ing at the golf co			ines and snaj	pped po	wer poles on	Farm-to-	Market Road 301 near town. A roof of a
Bailey County Needmore	07	1832CST			0	0	100K	1M	Hail (2.75)
	Storn	n spotters affiliat	ed with the N	Muleshoe PD 1	reported basel	all size	hail.		
Terry County Brownfield	07	1850CST			0	0			Thunderstorm Wind (G61)
- ~ .	Stron	ng thunderstorm v	wind caused	roof damage a	nd blew dow	n power	lines in town	ı .	
Lynn County New Moore	07	1930CST			0	0	75K	1M	Hail (1.75)
	Golft	ball size hail dam	aged vehicle	s and destroye	ed crops.				
Terry County Brownfield	07	2053CST			0	0		4M	Hail (1.75)
	Hail	up to golfball siz	e severely da	maged an esti	imated 30,000) acres o	of cotton.		
Yoakum County 8 E Plains	09	1619CST			0	0		100K	Hail (1.00)
Yoakum County 8 E Plains	09	1625CST			0	0		250K	Hail (1.75)

The Yoakum County Sheriff's Office reported golfball size hail.

		Time Local/	Path Length	Path Width	Per	nber of rsons	Estin Dan	nage	September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, South Panh	nandle								
Terry County									
Tokio	09	1627CST			0	0		350K	Hail (1.00)
	11-:1	4	:			Т С			
Terry County	пан	destroyed an est	iiiated 2500 a	acres of collor	i iii westerii	Terry Co	unty.		
12 W Brownfield	09	1655CST			0	0		200K	Hail (1.00)
									, ,
Terry County									
7 N Wellman	09	1708CST			0	0		150K	Hail (0.88)
TEXAS, Southeast									
Jefferson County									
Countywide	12	0700CST			0	0	25K		Flash Flood
		1100CST							
Orange County									
Countywide	12	0700CST			0	0	25K		Flash Flood
		1100CST							
	A a m	uch as six to so	uan inchas of	roin fall in la	oo than oiv l	hours ross	ulting in floo	ding of or	on roads in Laffarson and Orange Counties
									ea roads in Jefferson and Orange Counties. off due to floodwaters.
TEXAS, West		,,							
Andrews County									
6 E Andrews	07	1610CST			0	0	0	0	Hail (0.75)
	Domo	untad on State De	nuto 176						
Andrews County	керо	orted on State Ro	oute 176.						
7 E Andrews to	07	1610CST			0	0	20K	0	Thunderstorm Wind (G65)
9 E Andrews		1615CST							• •
			oles were blov	wn down by s	evere thund	erstorm w	inds along S	tate Route	176 near the intersection of Farm to Market
	Road	1 1788.							
	The f	first of four supe	rcell thunders	storms to affect	ct the north	ern Permia	ın Basin dur	ing the eve	ening of the 7th and the early morning hours
									iging thunderstorm winds. The storm then
					of southw	est Martii	n County, a	nd eventua	ally across Midland (including the city of
Midland County	Midi	and proper) and	nortnern Opto	on Counties.					
Midland to	07	1705CST			0	0	5K	0	Thunderstorm Wind (G57)
5 SE Midland		1754CST							(01.)
								nity. Multi	ple reports of similar winds were received.
Midland Country	These	e winds destroye	ed a storage sh	ned along Hig	hway 158 s	outheast of	t the city.		
Midland County Midland to	07	1715CST			0	0	0	0	Hail (1.00)
5 SE Midland	07	1748CST			v	v	v	v	11411 (1.00)
	Multi	iple reports of po	enny to quarte	er size hail we	re received	from the N	Midland vici	nity.	
Midland County									
Midland	07	1735CST 1900CST			0	0	15K	0	Flash Flood
	Repo		eral cars stall	ed in flash flo	od waters o	n Loop 25	i0 at Fairgro	unds Road	. No injuries were reported.
Midland County							8		J
Greenwood	07	1750CST			0	0	0	0	Flash Flood
	Local	1930CST	ad flack flacd	in a that manult	ad in hiah v		uiu a. aitre atua	ata in Cuaa	unvise d
Midland County	Loca	l officials report	ed Hasii Hood	ing mai resuit	ea in nigh v	vater cover	ring city sire	ets in Gree	enwood.
Greenwood	07	1750CST			0	0	0	0	Hail (1.00)
					-	-	-	-	
Upton County									
Midkiff	07	1930CST			0	0	8K	0	Thunderstorm Wind (G61)
	Thun	derstorm winds	blew large tre	es and power	lines down	in the city	of Midkiff.		
				Poci	40 //11				

		Time Local/	Path Length	Path Width		nber of	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, West									
Dawson County									
14 NNE Lamesa to 5 ENE Arvana	07	2020CST 2050CST			0	0	250K	3.7M	Hail (1.75)
	destro U.S. I penni locati	oyed cotton and Highway 87 no es to golfballs. I ons for up to tw	sorghum cro rth-northeast NWS meteore venty minutes	ops across no of Lamesa. I ologists inter s. The combi	rtheast Daw Large hail c viewed local nation of da	son Count overed the residents mage surv	y. Hailstone e ground nor the followin eys and inte	s ranging theast and g day. Sev rviews wit	th of large hail that damaged property and in size from pennies to golfballs fell along east of Arvana, also ranging in size from teral residents indicated the hail fell at their the local agricultural officials indicated over ehicles, and windows were damaged by the
Dawson County									
2 E Arvana	07	2023CST			0	0	0	0	Hail (2.75)
	the de		wath listed a	bove. Damag	ge estimates	indicated	in the previo	ous listing	large hail was observed in association with reflect those associated with this report in
Dawson County									
East Portion	07 08	2114CST 0200CST			0	0	15K	0	Flash Flood
	High of the	water resulting	ercell storm t	racked south	east across th	ne area, vel	hicles were s	talled in h	on the 7th and into the early morning hours igh water on U.S. Highway 87 twelve miles
Dawson County 2 NE Sand to	07	2200CST			0	0	150K	1 0 1	Heil (1.75)
6 S Sand	07	2200CST 2235CST			U	U	150K	1.9M	Hail (1.75)
	size h result worth	nail that broke ved in the destruc	vindows, cau ction of local damage occ	sed roof dan cotton and su	nage, and da irgham crops	maged vel s. Post stor	hicles at rura m surveys a	al residenc nd intervie	Dawson County) resulted in up to golfball es in the vicinity of Sand. This storm also ws suggest an additional 1.9 million dollars arge hail at their locations to range from
Dawson County									
Sand	07 08	2230CST 0300CST			0	0	0	0	Flash Flood
	The s								ghway 180 was closed west of Lamesa due were reported.
Martin County									
13 NW Tarzan	07	2235CST			0	0	0	0	Hail (1.75)
	to the								l into northern Martin County, large hail up porarily closed a section of the highway due
Gaines County									
20 SE Seminole	07	2350CST 2355CST			0	0	0	0	Hail (0.75)
		ourth supercell						_	initiated over eastern Gaines County. This noving into Andrews County.
Andrews County									
16 E Andrews to 20 E Andrews	08	0020CST 0035CST			0	0	75K	0	Thunderstorm Wind (G70)
		e thunderstorm percell storm m				oles along	Highway 1'	76 east of	Andrews to near the Martin County line as
Andrews County	are sa	percen storm			s county.				
20 E Andrews	08	0025CST 0035CST			0	0	0	0	Hail (1.00)
		hailstones rang ews/Martin Cou				ered the gr	round and str	ripped the	leaves from trees at a rural residence on the
Martin County									
13 W Tarzan	08	0025CST 0035CST			0	0	0	0	Hail (1.00)
						ered the gr	ound and str	ripped the	leaves from trees at a rural residence on the

		Time Local/	Path Length	Path Width		ber of sons	Estim Dam		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, West									
Martin County									
15 SW Tarzan	08	0050CST 0051CST	0.2	100	0	0	0	0	Tornado (F0)
	field was l	e supercell storn storm spotting,	and a WFO I reas of south	Midland staff west Martin (meteorologi	st who wa	s looking n	orth from	ocal television meteorologist who was in the the office, observed a tornado. The tornado ghway 349 and eight miles south-southwest
Martin County			<i>U</i> ,						
12 SW Tarzan	08	0104CST			0	0	0	0	Hail (1.75)
	was c		e second time	e this night to					artment of Transportation in Martin County rts of Highway 349 remained closed due to
Martin County	Ü								
13 W Tarzan to 13 SW Tarzan	08	0105CST 0110CST			0	0	120K	0	Thunderstorm Wind (G78)
	349. 'inters' down inters	ess occured. This The most intense section. This dan aburst in the forv	transition re e damage occ mage correla ward flank de ays 349 and	sulted in a br curred along ted with a s owndraft of t 176, south to	oad swath of the stretch of trong low le he storm. Th	very stror Highway vel diverg ese winds	ng and dama 349 from the gent pattern s blew down	ging south ne intersec in radar numerou	a high precipition supercell as the occlusion west to west winds which crossed Highway tion with 176 to about 6 miles south of that velocity products, indicative of an intense is power poles (up to twenty-five) from the al light pole, which was snapped at the base,
Mellow I Country	7th, a	and the early me	orning hours	of the 8th.	These storm	produced	devastating	g large ha	during the late afternoon and evening of the il, damaging winds, flash flooding, and a area agricultural crops.
Midland County	00	1010000				0	0	0	TI (1 (0.75)
20 S Midland	08	1910CST			0	0	0	0	Hail (0.75)
	Repo	rted on Highway	v 349.						
Midland County		<i>g</i>	,						
15 S Midland	08	1930CST 2045CST			0	0	0	0	Flash Flood
	An iso hours northe	enforcement office of the 8th. This ern (left moving)	storm develo storm devel member we	ped over sou oped near th akening and	thern Midlan e intersection the southern	d County n of an ou (right mov	and moved atflow bound ving) cell be	south into lary and a coming se	roadways in southern Midland County. northern Upton County during the evening a dryline. The storm initially split, with the vere with large hail and flash flooding. The ntitive of the storm's severity.
Pecos County	10	1 (A F CCT)			•				W 1 (C55)
24 SSW Bakersfield	10	1625CST			0	0	0	0	Thunderstorm Wind (G57)
		e limbs measurin lerstorm winds.	g "several in	ches" in dian	neter were bro	oken off o	f trees at a r	ural reside	nce in far southeast Pecos County by severe
Scurry County									
2 W Knapp	10	1937CST 1950CST			0	0	10K	250K	Hail (2.75)
	wind	reports were rec	t of rural ho	mes by the l	arge hail sto	nes. Seve	ral second h	and repor	Knapp. The local newspaper editor reported ts of crop damage were received, but local ed.
Mitchell County									
Colorado City to 4 WSW Colorado City	10	1955CST 2007CST			0	0	0	0	Hail (1.75)
Jointado Olty	Golfb	pall hail was repo	orted in the C	olorado City	vicinity.				
	10th.		areas include	d the northea	st Permian B	asin, when	e hail as lar	ge as base	exas during the afternoon and evening of the balls was reported. Despite multiple reports orted.
Jeff Davis County			Č		- *	-	1	•	
9 NW Ft Davis	11	1745CST			0	0	0	0	Thunderstorm Wind (G74)
		1750CST							

Severe thunderstorm wind gusts were recorded by an automated observing system at the McDonald Observatory on Mount Locke. A gust of 85 MPH was recorded at 1745 CST and a gust of 82 MPH was recorded at 1750 CST. The observatory staff reported no damage from the storm which was also accompanied by large hail.

		Time	Path	Path		nber of	Estin		September 2003
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Pe Killed	ersons Injured	Dan Property	nage Crops	Character of Storm
DESCA CLASS									
<u>FEXAS, West</u> Jeff Davis County									
9 NW Ft Davis	11	1750CST			0	0	0	0	Hail (1.00)
> 1 (, ,
Leff Davis County	Penny	y to quarter size	hail covered	the ground a	t the McDor	ald Observ	atory on M	ount Lock	e.
Jeff Davis County Ft Davis	11	1801CST			0	0	0	0	Hail (1.75)
1,50,10								Ü	(11/2)
D C	Large	hail ranging fro	m quarter to	golfball size	covered the	ground in	Fort Davis.		
Brewster County 5 ENE Alpine to	11	1834CST			0	0	0	0	Hail (1.75)
7 ENE Alpine	-11	1842CST			U	v	v	v	Han (1.73)
-	Nicke	el to golfball size	hail was rep	orted near th	ne intersection	on of Highy	vays 67 and	90.	
	Sever	e thunderstorms	developed in	the vicinity	of the Davis	Mountains	on the 11th	A few st	forms became severe resulting in very strong
									image was reported.
Upton County									
1 E Midkiff	13 14	2325CST 0130CST			0	0	0	0	Flash Flood
			l flash floodi	ng resulting i	in high water	r flowing o	ver Farm to	Market R	oad 2401 just east of Midkiff.
Reagan County		•			C	C			·
10 NW Texon	14	0023CST			0	0	0	0	Hail (1.75)
	Repo	rted at a rural ga	s plant on the	Upton/Reas	gan County	line just of	f of Farm to	Market R	toad 1555.
Upton County	•	, and the second	1	1 .	,	3			
14 NE Rankin	14	0023CST			0	0	0	0	Hail (1.75)
	Reno	rted at a rural ga	s plant on the	· Unton/Rea	gan County	line just of	f of Farm to	Market R	oad 1555
Reagan County	repo	riod at a rarai ga	o praint on the	o promitted	guir County	ine just of	. 01 1 41111 10		10001
20 N Big Lake	14	0030CST			0	0	0	0	Flash Flood
	Flach	0145CST	d in Highway	, 137 being i	nundated by	high wate	r reculting i	n the high	way becoming impassable.
Pecos County	1 10311	mooding resulte	d iii Tiigiiwa	137 being i	nundated by	mgn wate	i, icsuiting i	n die ingn	way becoming impassable.
6 S Iraan	14	0626CST			0	0	0	0	Flash Flood
	Law	0945CST	cials reported	l un to eight	inches of his	th water flo	owing over l	Highway 3	349 as a result of flash flooding.
	Law	emoreement om	ciais reported	up to eight	menes of mg	gii watei iit	owing over i	ingnway 3	as a result of flash flooding.
									eloped along and just north of an advancing
		ront during the calls and flash floo		irs and early	morning ho	urs of the l	3th and 14t	h. These s	storms resulted in large hail up to the size of
Pecos County	gonoc	and mush mo	Julia.						
3 N Coyanosa	25	0515CST			0	0	0	0	Flash Flood
	The i	0730CST ntersection of Fa	urm to Marka	t Doods 177	6 and 1450 x	vac closed	due to high	water	
Midland County	THE	intersection of 12	um to Marke	t Koaus 1770	0 and 1450 v	vas cioseu	due to mgn	water.	
Midland	25	0845CST			0	0	0	0	Flash Flood
	Flach	1100CST	d two to thre	a faat of wat	tar in some o	rity etraate	Motoriete r	anortad hi	gh water up the hoods of cars. No reports o
		led vehicles were				nty succis.	WIOTOTISTS I	eported in	gn water up the hoods of cars. No reports o
Upton County									
North Portion	25	0915CST			0	0	0	0	Flash Flood
	Heav	1130CST v rainfall resulte	d in flash flo	oding of seve	eral highway	s across th	e northern r	arts of Up	oton County. Highway 329 was closed due to
	high	water nineteen n	niles northwe	st of Rankin	. High water	in Nine M	lile Draw fl		hway 349 nine miles north of Rankin. Flash
Dangan County	flood	ing was also rep	orted in the c	ity streets of	Midkiff at 0	9:55 CST.			
Reagan County 36 NW Big Lake	25	1007CST			0	0	0	0	Flash Flood
		1200CST						v	
Howard Ct	Flash	flooding resulte	d in high wa	ter flowing o	ver Farm to	Market Ro	oad 2401.		
Howard County Big Spring	25	1130CST			0	0	50K	0	Flash Flood
Dig opting	43	1330CST			U	J	JUK	U	- 1000 - 1000
									rists. Local authorities reported "numerous

Flash flooding in the city streets of Big Spring resulted in a dangerous situation for motorists. Local authorities reported "numerous" vehicles stalled in up to three feet of flowing water in city streets. Rescue workers removed several people from vehicles which were submerged up to the windshields in the flood waters. No injuries were reported.

		Time Local/	Path Length	Path Width	Numb Pers		Estim Dama			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
TEXAS, West										
Mitchell County Colorado City to 1 W Colorado City	25	1250CST 1255CST	1	30	0	0	250K	0	Tornado (F1)	
	Busine	ess 20. The torn wed the tornado	ado initially	moved north	west, and pro	duced lig	ht damage t	o two mo	bile homes along 198	nile south of Interstate 33. An eyewitness who approximately 200 feet
	tornad radio s	lo then strength	ened as it mo of its roof, a	oved through a car port, and	a rural reside a storage bar	ntial neigh n. Two ca	hborhood in impers were	nmediatel	y south of Business 2	UM Radio station. The 0. A house west of the th one being deposited
	on the MPH)	e northeast corn entered the rer trees, and move	er of the str nainder of th	ucture. After ne structure, a	the garage dend the roof b	oor was c lew off. I	compromise Large pieces	d, high sp of roof o	beed winds (estimated lebris knocked down	of this well built home d between 90 and 100 utility poles, damaged ed damage from flying
Mitchell County									Business 20. He obsecausing additional mi	erved the dissipation of nor damage.
Mitchell County Colorado City	25	1256CST 1400CST			0	0	0	0	Flash Flood	
TEXAS, Western Nort	occasio southw resulted A wea	onally heavy ra west to northeast and in flash floodi	infall which t across the I ng.	developed ov Permian Basin struck near C	er the Trans throughout colorado City	Pecos reg he day. S during th	gion of Wes Strong conve ne early afte	ection em	luring the morning he bedded within the lar	band of moderate to ours, and moved from ge precipitation shield d as a narrow line of
UTAH, East	NONI	E REPORTED.								
UTZ022>025-027>029		neast Utah - H al & Abajo M 0000MST 2359MST						'avaputs	s Plateau - Grand Drought	Flat And Arches -
San Juan County	to exce	_	t conditions	continued acre	_	_				ah. However, extreme Data publication for a
Blanding	09	1100MST 1530MST			0	0			Heavy Rain	
		tent rainfall ove red between 143			street floodi	ng and m	ud flowing	onto road	s in Blanding. Most	of the street flooding
San Juan County	09	1200MST 1300MST			0	0			Heavy Rain	
Monticello to 4 N Monticello										
4 N Monticello	Heavy	rains resulted in	n water up to	6 inches deep	to flow acro	ss Highw	ay 191.			
	Heavy	rains resulted in 1320MST 1430MST	n water up to	6 inches deep	to flow acro	ss Highw 0	ay 191.		Flash Flood	
4 N Monticello San Juan County 3 N Monticello to	09 Water	1320MST	-	•	0	0		e waters a		

Strong winds caused a hay barn to blow down.

		Time Local/	Path Length	Path Width	Numb Pers		Estima Dama			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
UTAH, East										
San Juan County										
17 S Bluff to	09	1830MST			0	0	1M		Flash Flood	
16 NE Bluff		2300MST								
	-			_		_				ute to rescue stranded
										occupants successfully
										munity of Montezuma he White Mesa Indian
						_			•	All of the vehicles and
										washed out, including
										hat were not destroyed was flooded. Several
										efs during the flooding
	event	and completely o	covered a fre	quently used	foot bridge fo	r over 12	hours.			
UTZ024		ern Uinta Basi	in							
	18	0500MST 0700MST			0	0			Frost/Freeze	
	•					in wide	spread freezii	ng tempe	eratures across the eas	stern Uinta Basin. The
UTAH, West and Cer		um temperature	at the verna	ii ASOS was .	ou degrees.					
Washington County	<u> </u>									
Zion National Park	02	1645MST			0	0	0	0	Flash Flood	
		2000MST	C1: -11-	1 G1-	G 1: :	7: N-	4: 1 . D 1 -	A 1J.1	: 1 1 41-	
	-	y rains railing o			_					e east entrance tunnel,
Wayne County	orota		on nooung t	and decarred	on 1 me cree.	1 4114 1164		un cum	rg. ounu.	
Hanksville	06	1700MST			0	0	0	0	Flash Flood	
	A thu	2000MST	od 0.04 inah	as of rain in 2	O minutas in	Uankaril	la producina	flach fla	ods east of town on E	Pull Crook
VERMONT, North a)eu 0.94 men	es of failt iii 3	o minutes in	Hanksvii	ie, producing	masii mo	ods east of town on L	ouii Cieek.
Chittenden County	ina con									
Jericho	03	2300EST			0	0	5K		Lightning	
		2330EST								
	A ligh	tning bolt struck	the Jericho	fire departme	nt Wednesday	night ar	nd damaged th	ne radio a	and antenna.	
VTZ011-019	_	ern Rutland -		-	•	C				
	19	1050EST			0	0	20K		High Wind (G40))
		2000EST								
										n and into Canada by
	evenir	ng.Strong winds	accompanie	this system	and were enh	anced by	the proximity	of a str	ong high pressure sys	tem over the Canadian
VTZ018		rn Addison	power lines v	vere blown do	own across Ki	mand co	unty, especiai	iy noted	in Castleton, Brandon	i and Kunand.
V 12010	19	1057EST			0	0	10K		High Wind (G52)
		2000EST								,
	The re	emnants of Hur	ricane Isabe	l moved acro	ss western N	lew York	the afternoo	on of Fr	iday Sentember 19th	n and into Canada by
										tem over the Canadian
			st of 60 mph	(52 knots) wa	s reported in	Starksbo	ro. Elsewhere	, there w	ere trees and power l	ines blown down.
VTZ009		ern Addison					2077		TT: 1 TT: 1 (C.40)	
	19	1120EST 2000EST			0	0	30K		High Wind (G40))
								~ -		11. ~
										and into Canada by tem over the Canadian
										nd New Haven. A tree
		and damaged a			* * * * * * * * * * * * * * * * * * *	. •		• *	. ,	
VTZ017		ern Chittende	n				**=			
	19	1205EST 2030EST			0	0	20K		High Wind (G40))
		AUSULD I								

The remnants of Hurricane Isabel moved across western New York the afternoon of Friday, September 19th and into Canada by evening. Strong winds accompanied this system and were enhanced by the proximity of a strong high pressure system over the Canadian Maritimes. Trees and power lines were blown down in Jericho. In Richmond trees fell on and damaged 3 trucks.

		Time Local/	Path Length	Path Width		ber of	Estim Dam		September	2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	
VERMONT, North an	d Cen	<u>tral</u>								
VTZ006	Lamo 19	ille 1228EST 1800EST			0	0	10K		High Wind (G48)	
VTZ005	evening Maritir 55 mpl	g. Strong winds a nes. A few trees n (48 knots) wind	accompanie and power ds in Pleasa	d this system a lines were blo	nd were en wn down, o	hanced by especially	the proximi across weste	ity of a stro	iday, September 19th and into Cana ong high pressure system over the Car is of the county. A weather spotter rep	nadian
V 1 Z 0 0 5	19	ern Chittende 1440EST 2030EST	n		0	0	10K		High Wind (G40)	
	evening Maritin	g.Strong winds a nes. Trees and p	ccompanied ower lines v	l this system ar vere blown dov	nd were en	hanced by	the proximi	ty of a stro	iday, September 19th and into Cana ong high pressure system over the Car eached 46 mph or 40 knots.	
VTZ002-016	Weste 19	ern Franklin - 1440EST 2100EST	Eastern I	ranklin	0	0	20K		High Wind (G40)	
	evening	g.Strong winds a	ccompanied	l this system a	nd were en	hanced by	the proximi	ty of a stro	iday, September 19th and into Cana ong high pressure system over the Car nosburg, Fairfield and Fairfax.	
Addison County		г								
Countywide	29	1430EST 1530EST			0	0			Lightning	
Chittenden County Countywide	29	1430EST 1530EST			0	0			Lightning	
VERMONT, South		erstorms formed from Burlington	-					ail, freque	nt cloud to ground lightning and torn	rential
VIRGIN ISLANDS	NONE	E REPORTED.								
St. Croix County St. Croix	21	1600AST			1	1			Lightning	
VIRGINIA, East	_	ing struck and k trailer. Thunder							ier on the south shore while loading	a boat
VIRGINIA, Extreme S		RECEIVED. v <u>est</u>								
VIRGINIA, North	NONE	E REPORTED.								
VIRGINIA, Northwest		RECEIVED.								
VIRGINIA, Southwest		E REPORTED.								
Lexington (C) Lexington	02	1515EST			0	0	0		Thunderstorm Wind (G60)	

Thunderstorm winds during the afternoon of the 2nd downed trees in Lexington.

		Time Local/	Path Length	Path Width	Numl Pers		Estimated Damage			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	_	rops (Character of Storm	
VIRGINIA, Southwest Rockbridge County 2.5 NE Rockbridge Baths	04	0150EST 0400EST			0	0		I	Flash Flood	
Rockbridge County Riverside	04	0300EST 0330EST			0	0		I	Flash Flood	
	Heavy	thunderstorm r	ains during th	ne early morn	ing of the 23	rd produce	ed flash flooding	ζ.		
	•	thunderstorm erstorm rains als					to flood, 2.5	miles no	rtheast of Rockt	ridge Baths. Heavy
Pittsylvania County Blairs	04	1330EST			0	0	15K	T	Thunderstorm V	Vind (G70)
Danville (C) Danville	04	1335EST 1515EST			0	0	5K	I	Flash Flood	
	Heavy	thunderstorm r	ains during th	e afternoon o	of the 4th pro	duced flas	h flooding and o	lamaging	winds.	
	water		ndy Creek to	flood and c				_		e with up to 3 feet of as also submerged in
			lipped a tract	or trailer and	tore the tin re	oof off of	a barn in Blairs.			
	Halifa 05 06	0138EST 1430EST			0	0		I	Flood	
VAZ033-035-043>047-	flood s	stage around 1 A	M on the 6th	at South Bo	ston.				n River crested a	ittle over 3 feet above
058>059	18	1330EST 2150EST			0	0	1.8M	1.3M T	Tropical Storm	
		rricane Isabel v					-		oon and early eve	ning at up to 50 to 60 ed down.
VAZ013>014-018>020-	damag major and 5 destroy	e. In Appomate damage and 1 businesses suffered, 20 suffered	tox County lusiness suffe ered minor dama I minor dama	home suffer red minor data amage. Crop age, 3 busines	red major da mage. In Cha damage wa ses suffered i	mage. In arlotte Co s also rep najor dan	Buckingham C unty, 2 homes we orted in Charlo nage, and crop d	County, 1 I were destro tte County amage wa	home was destro byed, 30 homes so y. In Pittsylvania as reported.	idence suffered minor yed, 3 homes suffered affered major damage a County, 1 home was
	18 19	1900EST 0100EST			0	0	0	7	Tropical Storm	
	throug	•	ning of the 19	th, especially						e afternoon of the 18th lines being downed.
, IZZVII VZT VOV	18	2000EST	moriuge - /		0	0	650K	I	Flood	

Flooding along the South River as a result of Hurricane Isabel caused significant damage to property and infrastructure from the northern Rockbridge county border downstream to the South River's confluence with the Maury River. Flooding also occurred in portions of Montgomery and Amherst Counties.

Overall nearly 500 families were impacted. 12 single family dwellings were destroyed or made permanently uninhabitable, and over 60 single family dwellings suffered major damage (having a foot or more of mud in them). In terms of infrastructure, Route 608 which parallels the South River was washed out or undermined in several locations along its length. Three permanent bridges over the South River were destroyed; one, a steel bridge was broken into three pieces - roadbed, and each side, with the three large pieces being carried different distances downstream from its original location. A fourth bridge across the river (abandoned C&O Railroad bridge) about 200 yards upstream from its confluence with the Maury River, now resides at the mouth of the South River, and is embedded in the stream bottom; in a position to collect debris as it floats down the South River. This bridge was part of the scenic "Chessie Trail" which runs from Buena Vista to Lexington. In addition to the damage listed above, 25 to 30 head of livestock were lost in the flood.

		Time Local/	Path Length	Path Width		ber of sons	Estimated Damage			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

VIRGINIA, Southwest

South River communities directly impacted by the flood include: Vesuvius, Marlbrook, Midvale, Cornwall and Mountain View.

In Vesuvius - 20 families were displaced. 2 mobile homes were destroyed, 3 double-wide mobile homes suffered major damage (one washed downstream and wrapped around a tree).

In Marlbrook - 2 large homes had severe damage...moved off foundations. 2 other homes were severely undermined.

Between Marlbrook and Midvale two bridges were lost.

In Midvale - Steel Highway bridge across the River broken up and carried downstream.

In Cornwall - 5 of 7 mobile homes in a small mobile home park were destroyed, the other two had major damage.

In Amherst County the heavy rain produced small stream and urban flooding county wide. Heavy rain also caused significant flooding in near Shawsville in Montgomery County.

VAZ047-058>059

Buckingham - Halifax - Charlotte

19 0530EST 0 0 Flood

20 1630EST

The remnants of hurricane Isabel produced heavy rainfall on the 18th that resulted in minor flooding on on the Roanoke River and up to moderate flooding on the James River.

The James River at Bremo Bluff crested 7.5 feet above flood stage around 4 PM on the 19th. The Roanoke River at Randolph crested about 2 feet over flood stage around 315 AM on the 20th.

VAZ019>020

Alleghany - Bath

19 1400EST 0 0 2.5K Flood 20 0200EST

Runoff from the heavy rains of Tropical Storm Isabel produced flooding along the Cowpasture river in Bath and Alleghany counties. In Bath County a foot bridge was washed away in Williamsville at 3:00 PM on the 19th. In Alleghany County a campground 3 miles east of Iron Gate was flooded.

Halifax County 2 SSW Crystal Hill to 1.5 S Crystal Hill	22	2200EST 2202EST	0.6	30	0	0	2K	Tornado (F0)
Halifax County 5 E Halifax	22	2300EST			0	0	10K	Thunderstorm Wind (G60)
Lynchburg (C) Lynchburg	22	2300EST			0	0	10K	Thunderstorm Wind (G60)
Halifax County 4 E Halifax to 4.3 ENE Halifax	22	2330EST 2332EST	0.3	30	0	0	2K	Tornado (F1)
Halifax County 1 NNW Paces	23	0200EST 0630EST			0	0	0	Flash Flood
VAZ043	Henr 23	y 0200EST 0430EST			0	0	0	Flood
Rockbridge County Riverside	23	0230EST 0500EST			0	0	50K	Flash Flood

Thunderstorms during the late evening of the 22nd, into early morning of the 23rd produced a couple of tornados, flash flooding, small stream flooding, and damaging winds.

A tornado developed in a cornfield about 2 miles south-southwest of Crystal Hill in Halifax County, and traveled north-northeast about 0.6 miles before dissipating. This tornado was about 30 yards wide. It knocked down trees, with one falling on a house, resulting in gutter and siding damage.

Another tornado developed 4 miles east of Halifax, in Halifax County, and traveled a quarter mile to the north-northeast before dissipating. This tornado was about 30 yards wide. It snapped off numerous trees, and ripped shingles off the roof of a house.

		Time Local/	Path Length	Path Width		ber of sons	Estimated Damage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	_	rops Character of Stor	rm
VIRGINIA, Southwe									
	floodi		oss the wester						ral homes. Small stream overflowed its banks, and
VAZ058>059		lerstorm winds of ax - Charlott 1445EST 1730EST		, with damage	to a home, i	n Lynchbu	arg, and a home	5 miles east of Halifax. Flood	
	Heavy		_	hours on the 2	22nd and ear	ly morning	g hours on the 2	23rd resulted in minor fl	looding on portions of the
Alleghany County								n and almost 5 feet abov ge at Randolph at 4 AM	ve flood stage at 1030 PM on the 24th.
West Portion	27	1555EST			0	0	0	Thunderstorn	m Wind (G60)
Covington (C) Covington	27	1620EST 1800EST			0	0		Flash Flood	
Botetourt County 5 N Eagle Rock	27	1705EST			0	0	0	Thunderstorr	n Wind (G60)
Giles County Central Portion	27	1710EST 1800EST			0	0		Flash Flood	
Pittsylvania County Chatham	27	1915EST			0	0	0	Thunderstorn	n Wind (G60)
	Thunc	lerstorms during	the afternoo	n of the 27th j	produced dar	naging wii	nds and flash flo	ooding.	
		thunderstorm r tral Giles Count						avy thunderstorm rains	also caused flash flooding
····			downed trees	across wester	n Alleghany	County, 5	miles north of	Eagle Rock, and in and	around Chatham.
WASHINGTON, No WAZ043		nogan Valley							
	11 12	2300PST 0300PST			0	0		High Wind (C	G71)
	A stro	ong cold front r	_	-			•	ning hours of September or recorded a wind gust of	er 12th creating local high
Spokane County Spokane	16	1530PST 1600PST			0	10	50K	Hail (0.25)	
	Inters	g the afternoon tate 90 drivers	were blinded	by the low s	un shining i	n their eye	s while small h		On the westbound lane of of Spokane.
WASHINGTON, No				accidoms and	pricups uron	g u rour m	ine officient of wi	esteduna i yo in the etty	or Sponume.
King County Kirkland to Duvall	08	0200PST 0700PST			0	0	5K	Heavy Rain	
									mish counties. Up to 1.5
WASHINGTON, So		, ion m Kiikialle	i, where a col	apic of nomes	and a CHUIC	i were 1100	acu. III Duvall	i, 5500 cusiomers fost po	ower due to toppled trees.
Kittitas County 10 N Roslyn	01 30	0000PST 2359PST			0	0		Wildfire	
	The S		-	-	and burned	a total of	1,097 acres. T	he fire was a lightning	sparked fire, and became

24 30 2359PST The Crystal Creek Fire was a lightning sparked fire which burned 1,584 acres. The fire became completely contained on October 14th.

Wildfire

Kittitas County

22 ENE Cle Elum

0000PST

		Time Local/	Path Length	Path Width	Per	Number of Persons		ated age		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WASHINGTON, Southwest

NONE REPORTED.

WEST VIRGINIA, East

		RECEIVED.				
WEST VIRGINIA, N	<u>vortn</u>					
Preston County	01	1505ECD		•		
Bull Run	01	1725EST	0	0		Flash Flood
	Dog	1825EST d flooded along Bull Run.				
Duagton Country	Road	i flooded along Bull Rull.				
Preston County	01	1005ECE		•		E1 1 E1 1
Newburg	01	1805EST 1900EST	0	0		Flash Flood
	Pose	d flooded.				
Proston County	Koac	i flooded.				
Preston County	01	1925ECE		•		E1 1 E1 1
Masontown	01	1835EST	0	0		Flash Flood
	Door	1930EST I flooded.				
M	Roac	i flooded.				
Marion County	0.4	40 45 TOM				
Fairmont	01	1845EST	0	0		Flash Flood
	T-1	2000EST	1 D 1			
M P C 4	Floo	ding along Pleasant Valley Rd and East Par	к ка.			
Monongalia County						
Morgantown	01	1845EST	0	0		Flash Flood
		2000EST	151			
u a .	Floo	ding along Falling Run Rd and Summer Sch	1001 Rd.			
Monongalia County						
Morgantown	01	2345EST	0	0		Flash Flood
	02	0045EST				
- . ~ .	State	e Route 7 flooded.				
Preston County						
Masontown	01	2345EST	0	0		Flash Flood
	02	0130EST				
	Seve	eral roads flooded.				
Preston County						
Newburg	02	0000EST	0	0		Flash Flood
		0100EST				
	State	e Route 92 flooded.				
Preston County						
Terra Alta	02	0000EST	0	0		Flash Flood
		0130EST				
	Salt	Lick Road flooded.				
Marion County						
Colfax	02	0130EST	0	0		Flash Flood
**		0145EST				
	Coal	Bank Hill Road flooded near Colfax.				
Tucker County						
Coketon	09	0330EST	0	0		Flash Flood
		0415EST				
	Rout	te 32 and several roads flooded by overflow	ing Blackwa	ter River.		
WVZ023-041	Pres	ston - Tucker				
	18	2200EST	0	0	4K	High Wind (G52)

Remnants of Hurricane Isabel caused wind gusts in the neighborhood of 60 mph, knocking down trees and utility lines in various sections of these counties. Isabel passed over Pittsburgh Pa around 8 AM EDT on the 19th. Wind gusts from Isabel started after 7 PM on the 18th and continued, from time to time, through the afternoon of the 19th.

on the roth and continued, from time to time, through the arternoon of

WVZ041 Tucker

19 0415EST 0 0 Flood

0700EST

Numerous roads remained flooded.

		Time Local/	Path Length	Path Width		ber of sons	Estim Dama			September 2003			
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm				
WEST VIRGINIA, No	rth									_			
WVZ023	Prest	on											
	19	1100EST			0	0			Flood				
	Remn	1600EST Remnants of Hurricane Isabel dumped nearly 4 inches of rain on the headwaters of the Cheat River. At Rowlesburg, the Cheat River											
	rose f	rose from 4 ft at 630 AM EDT on the 19th to flood stage, which is 16 ft, at Noon. It crested at 16.8 ft at 1 PM EDT, and fell below											
	flood stage by 5 PM EDT. Numerous small streams and roads were flooded in Preston and Tucker County in WV, as well as Garrett County MD.												
Preston County													
Howesville	27	1455EST			0	0	2K		Thunderstorm W	/ind (G50)			
	Trees	down on Route	26.										
Preston County													
Tunnelton	27	1526EST			0	0			Thunderstorm W	/ind (G50)			
	Trees	down.											
WEST VIRGINIA, So	uthea	<u>st</u>											
	NON	E REPORTED.											
WEST VIRGINIA, Wo	<u>est</u>												
Jackson County	01	1530ECE			0	0			(T) 1 4 XX	" 1 (C.50)			
Evans	01	1520EST			0	0			Thunderstorm W	(ma (G50)			
	Power lines and a power pole were knocked down along Route 87.												
WVZ007>008-016-018- 028>029	Maso	Mason - Jackson - Roane - Calhoun - Braxton - Gilmer											
0_0, 0_,	02	0900EST 1530EST			0	0	300K		Flood				
	South of a strong frontal zone, rain of 2 to 4 inches fell in a narrow west to east band, from the evening on the 1st, through the afternoon on the 2nd. The heaviest rain appeared across central Jackson County, near Ripley, through northern Roane County, around Spencer and Reedy. The heavy rain continued east into central Calhoun County and southern Gilmer County. A spotter near Normantown of Gilmer County reported 4 inches of rain. An automated rain gauge near Mt Zion of Calhoun County reported 3.7 inches of rain. The cooperative observer at Ripley measured 3.1 inches of rain.												

By late morning on the 2nd, several roads were covered and damaged by water from overflowing small streams. A Jackson County highway supervisor said, "water over the roads was our biggest problem". The basement area of the Normantown Elementary School in Gilmer County was flooded by Steer Creek. About 4 inches of water covered the basement hallway, with lesser amounts in the basement's 4 classrooms and 2 bathrooms. Water flooded the school's locker room and came within one step of flowing across the gym floor. Gilmer County volunteer firefighters helped moved school supplies and equipment from the basement to lessen the damage. The 4 teachers and principal moved the 60 students to the higher gym, until buses arrived to take the students home. Some students had to go to the high school until the water receded. The first year principal said, "we were prepared but I was not expecting something this major to happen so soon". At Sand Fork Elementary School, about a dozen students remained after an early dismissal. Many other school systems closed early for the day. In Calhoun County, one house had 18 inches of water inside. In Jackson County, one house in the Little Creek area sustained water damage. In Reedy of Roane County, water got into the community building and into the fire

The Little Kanawha River had a strong 13 foot vertical rise on the 2nd. Yet, the late evening crest remained below flood stage.

WVZ013-025>026-034>035

Lincoln - Logan - Boone - Wyoming - Raleigh

0600EST 125K Flood 1100EST

The last wave of rain, along a strong frontal boundary, hit the southern coal fields counties from the predawn through the late morning on the 4th. Rain of 2 to 3.5 inches fell. The cooperative observer in Beckley measured 3.52 inches. The Beckley airport and Oceana both had 3.25 inches. Dry Creek had 3.1 inches of rain. Whitesville of eastern Boone County saw 2.6 inches.

In Lincoln County, Frances Creek got into a few homes near Harts. In Logan County, 2 houses received water damage. Near Chapmanville in Logan County, private bridges on Garrett Fork were damaged. Several roads were flooded throughout these counties.

Pocahontas County Bartow

0100EST Flash Flood 0230EST

Small streams feeding into the East Fork of the Greenbrier River flooded. The cooperative observer at Bartow measured 2.4 inches of

		Time Local/	Path Length	Path Width		Number of Persons		nated nage		September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WEST VIRGINIA, West

Randolph County

Northeast Portion 19 0115EST 0 0 2K Flash Flood 0230EST

Water was 2 feet deep across Route 29 near Job and Whitmer. The nearby observer at Glady measured a 24 hour rain total of 3.1 inches. Along the Randolph and Tucker County border, portions of the stream bank along Red Creek were damaged. Future high water would threaten the few dwellings.

Steady rains from the remnants of Hurricane Isabel caused swollen streams by late on the 18th. Embedded showers early on the 19th caused small streams to flood roads. In terms of dwellings, only one old mobile home at Glady was damaged.

The presidential disaster declaration included counties as far west as Randolph County. See FEMA disaster number 1496 for details.

Upshur County Queens

s 21 1730EST 0 0 1K Flash Flood 1830EST

A nearly stationary thunderstorm formed along the county border between Upshur and Randolph Counties. Near Laurel Run, rains of around 2 inches likely fell in one hour. Roads were flooded and slightly damaged. No dwellings were affected.

WISCONSIN, Northeast

NONE REPORTED.

WISCONSIN, Northwest

NONE REPORTED.

WISCONSIN, Southeast

WIZ046>047-051>052- Marquette - Green Lake - Fond Du Lac - Sheboygan - Sauk - Columbia - Dodge - Washington - Ozaukee - Iowa 056>060-062>072 - Dane - Jefferson - Waukesha - Milwaukee - Lafayette - Green - Rock - Walworth - Racine - Kenosha

01 0000CST 0 0 Drought

30 2359CST

Drought conditions continued from August, 2003, through September 2003, across south-central and southeast Wisconsin. Much of this area was in a severe drought (D2) status during the first part of the month, however, beneficial rains fell during the period of September 12-14. Rainfalls of 3 to 5 inches from Lafayette County to Green Lake County (with a small area of 6 inches in southwest Iowa County and northwest Lafayette County) were enough to lower the drought rating from severe to moderate (D1) in this area. However, monthly rainfall totals of about 2 inches or less were recorded near Lake Michigan, which allowed the drought rating over southeast Wisconsin to remain at severe. The monthly rainfall at Madison's (Dane Co.) Truax Field was 4.24 inches, or 1.16 above normal. This was only the 3rd month of the entire year to date that had above normal rainfall. The other two months (May and July) were barely above normal in the rainfall department. At Milwaukee's (Milwaukee Co.) Mitchell Field, only 1.65 inches of rain fell during September, 2003, or 1.65 inches below normal. May, 2003 was the only month to date in 2003 with above normal rainfall at Milwaukee (0.59 inch above normal). Water levels in lakes, rivers, and streams remained below normal for the entire month, although they briefly rose on September 13th and 14th in response to the rains. Newspaper reports indicated that corn yields were expected to be in the 70 to 100 bushels per acre range, compared to a normal of 130 to 140. Soybean yields were expected to range from 20 to 30 bushels per acre, about 50% of normal. In fact, some farmers were not expecting to harvest much of anything in October. Some parts of south-central and southeast Wisconsin have only received half of their normal precipitation from November, 2002 through September, 2003. However, some spotty locations in 2003 have managed to pick up enough rain to have near average crop yields. Some farmers felt that the drought in 2003 was perhaps as bad as the 1988 drought, or worse, and that one would have to go back to 1933 to find a summer as dry as the 2003 summer. Throughout south-central and southeast Wisconsin, some trees continued to drop their leaves (without color) due to the continued dryness.

WISCONSIN, Southwest

NONE REPORTED.

WISCONSIN, West

NONE REPORTED.

WYOMING, Central and West

Teton County

10 E Fishing Bridge 01 0000MST 0 0 Wildfire

13 0800MST

The East Wildfire continued to burn into early September. The fire burned a total of 23,500 acres in August and September. The total estimated cost of fighting the fire was 6.9 million dollars.

Park County

25 SW Cody 01 0000MST 0 0 Wildfire

04 0800MST

		Time Local/	Path Length	Path Width	Number of Persons		Estimated Damage			September 2003
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

WYOMING, Central and West

The Boulder Basin Wildfire continued to burn into early September. The fire burned a total of 11,553 acres in August and September. The estimated total cost of fighting the fire was 1.9 million dollars.

Park County

Wildfire 30 W Cody 0000MST 01

1000MST

The Blackwater Wildfire continued to burn into early September. A total of 6,805 acres were burned. The estimated cost of fighting the fire was 1.2 million dollars.

Natrona County

19 N Casper 1530MST 08 Tornado (F0) 1535MST

At 330 pm MST, law enforcement reported a tornado 19 N of Casper. One mobile home sustained heavy damage.

017

WYZ002-008-014>015- Absaroka Mountains - Bighorn Mountains West - Wind River Mountains West - Wind River Mountains East -

Wind River Basin

2100MST 16 **Heavy Snow**

2100MST

An early season storm system brought heavy snow to parts of northern and central Wyoming. Snowfall amounts ranged from 3 to 6 inches in the lower elevations to 7 to 15 inches in the mountains.

WYOMING, Extreme Southwest

NONE REPORTED.

WYOMING, North Central

NOT RECEIVED.

WYOMING, Northeast

NONE REPORTED.

WYOMING, Southeast

NONE REPORTED.